



# SPECIFIER'S REFERENCE

METAL  
WOOD  
CEMENTITIOUS  
WOOD FIBER  
TRANSLUCENT  
MINERAL FIBER  
FIBERGLASS  
2018-2019

Inspiring Great Spaces®

**Armstrong®**  
CEILING & WALL SOLUTIONS

## EXPOSED STRUCTURE SOLUTIONS

## CEILING SYSTEMS



66

**BLADES™ & BAFFLES**



82

**CLOUDS & CANOPIES**



116

**DIRECT-TO-DECK PANELS**



128

**DESIGNFlex™**



162

**METALWORKS™**



216

**WOODWORKS®**



260

**TRANSLUCENT MATERIALS**

# Ceiling Systems

<b>new</b> WHAT'S NEW	2-3
BETTER SPACES – DESIGNFlex™	4-5
BETTER SPACES – SUSTAIN™	6-7
BETTER SPACES – TOTAL ACOUSTICS®	8-9
EXPOSED STRUCTURE SOLUTIONS	10-11
CUSTOM LOOKS – STANDARD PRODUCTS	12-13
CUSTOM LOOKS – CUSTOM PRODUCTS	14-15
CUSTOM WALLS – TECTUM® PANELS	16-17
CUSTOM METAL PERFORATIONS	18-19
ONE-OF-A-KIND DESIGNS	20-21
INTEGRATED SOLUTIONS	22-23
A CEILING FOR EVERY SPACE®	24-25
PHOTO GALLERY	26-55
PORTFOLIO AT-A-GLANCE	56-59

## Exposed Structure Solutions

EXPOSED STRUCTURE/CEILING SELECTOR 60-63

### BLADES™ & BAFFLES

Acoustics Overview	66
Blades™ & Baffles At-a-Glance	68-69
Blades & Baffles – Products	70-81

### CLOUDS & CANOPIES

Acoustics Overview	82
Clouds & Canopies At-a-Glance	84-85
Clouds & Canopies – Products	86-115

### DIRECT-TO-DECK PANELS

Acoustics Overview	116
Direct-to-Deck At-a-Glance	118
Direct-to-Deck – Products	119-127

<b>new</b> DESIGNFlex™	
Better Spaces Overview	128
DesignFlex™ At-a-Glance	130
DesignFlex Overview/Intro	131-133
DesignFlex – Products	134-157
DesignFlex Suspension Systems	158-161

### METALWORKS™

Better Spaces Overview	162
MetalWorks™ At-a-Glance	164-173
MetalWorks – Products	174-210
Custom MetalWorks	211-215

### WOODWORKS®

Better Spaces Overview	216
WoodWorks® At-a-Glance	218-223
WoodWorks – Products	224-253
Custom WoodWorks	254-258

### TRANSLUCENT MATERIALS

Infusions® – Products	260-263
-----------------------	---------

### MINERAL FIBER & FIBERGLASS

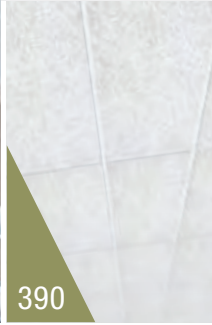
Better Spaces Overview	264
Mineral Fiber & Fiberglass At-a-Glance	266-270
Mineral Fiber & Fiberglass – Products	271-389

### TECTUM® WOOD FIBER – CEMENTITIOUS

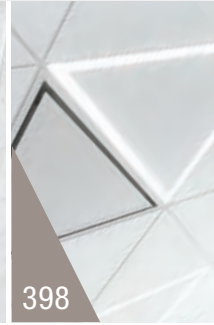
Better Spaces Overview	390
Tectum® At-a-Glance	392
Tectum – Products	394-397



264  
MINERAL FIBER  
& FIBERGLASS



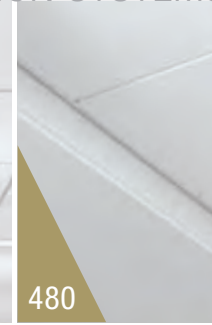
390  
TECTUM®  
WOOD FIBER –  
CEMENTITIOUS



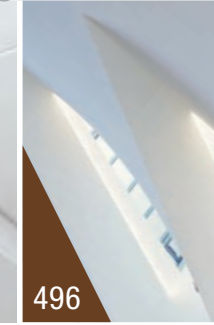
398  
INTEGRATED  
SOLUTIONS



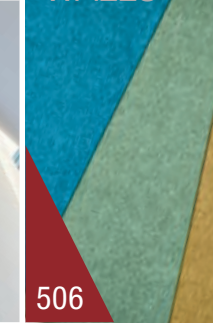
446  
SUSPENSION  
SYSTEMS



480  
TRIM &  
TRANSITIONS



496  
DRYWALL  
SYSTEMS



506  
WALL  
SYSTEMS

## Ceiling Systems (cont.)

### INTEGRATED CEILING SOLUTIONS

Overview	398
Integrated Ceiling Solutions At-a-Glance	400
Integrated Services	402-413
Lighting Solutions	414-425
Shade Pockets	426-431
Common Conditions	432-443
Window & Shade Pockets	
Transitions	
Soffits	
Light Coves	
Flat & Curved Drywall Grid	
Interior Glass Partitions	
Corridors	

## Installation Systems

SUSPENSION SYSTEM SELECTOR	444-445
----------------------------	---------

### STANDARD SUSPENSION SYSTEMS

Seismic Compliant Ceilings	446
Suspension Systems At-a-Glance	448-449
Suspension Systems Products	450-468
Suspension Systems Moldings	469-471
Accessories	472-473
Interface Drawings	474-478

### TRIM & TRANSITIONS

Trim & Transitions At-a-Glance	480-481
Axiom® Products	482-494

### DRYWALL SYSTEMS

Drywall Grid Systems At-a-Glance	496
Drywall Grid Systems Products	497-503
Accessories	504-505

## Wall Systems

### WALLS

Acoustics Overview	506
Walls At-a-Glance	508-509
Walls Products	510-525
Accessories	526-527
Custom Metal & Wood	528-529

## Reference

Armstrong Ceilings and Sustainability	532-536
Recycling Ceilings/Environmental Footprint	537-543
Acoustical Performance	544-551
Durability & Cleanability	552
Sag/Humidity Resistance	553
Fire Resistance	554-557
Seismic Compliance	558-559
Item Number Index	560-569
Alphabetical Product Index	570-571
Web Tools	572-573

Let us know how we can help you with your next project with our broad portfolio of standard, made-to-order, custom, and one-of-a-kind solutions. Call us!

CREATING BETTER SPACES

# DESIGNFlex™ Ceiling Systems



**DESIGNFlex™**  
A New World of Choice  
for Ceiling Systems

Pages 128-161

## Reinventing The Ceiling

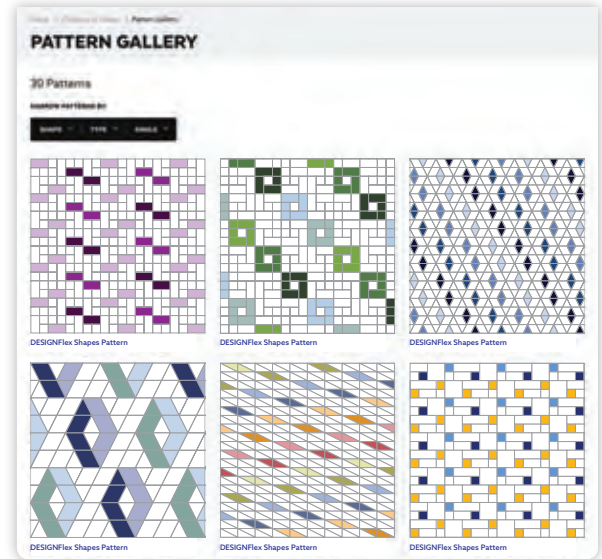
Mix and match different sizes, shapes, colors, and materials. Popular Lyra®, Calla®, Ultima®, Optima®, MetalWorks™ and more with Total Acoustics® and Sustain® performance options!

[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)

## Visit Our Online Pattern Gallery to Start Your Next Ceiling Design

See dozens of pre-designed patterns and colors online in our pattern gallery. We've provided all of the details – from take-offs showing 2' or 4' on-center spacing to panels, suspension, trims, and accessories. Installation instructions answer questions typically associated with unique ceiling installations.

[armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery)



## Acoustical Design: EXPOSED Structure Spaces

Whether making a design statement that puts acoustical materials front and center, or opting for a more open, exposed structure look with a direct-attach solution, we've got hundreds of options to help you get the look you want and control noise, too.

See pages 64-127.

### INVISACOUSTICS™



Empower your exposed structure design while bringing quiet to your space.

See pages 122-123.

### SPOTLIGHT™ ACOUSTICS



#### BLADES™ & BAFFLES

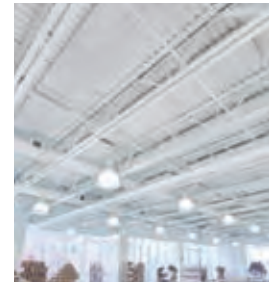
SoundScapes® Blades™  
MetalWorks™ Blades™  
Tectum® Blades  
Soundsoak® Baffles  
Tectum Baffles



#### CLOUDS & CANOPIES

SoundScapes® Shapes Formations™  
Tectum® Shapes & Clouds  
MetalWorks™ Canopies  
WoodWorks® Canopies  
Serpentina®

### MORE DIRECT-ATTACH ACOUSTICS SOLUTIONS



#### DIRECT-ATTACH

InvisAcoustics™ Basics Capz™  
SoundScapes® Blades™  
Tectum® Direct-Attach  
Tectum® Finale

WHAT'S NEW

CREATING BETTER SPACES

# Total Acoustics® & Sustain® Ceiling Systems



**TOTAL ACOUSTICS®**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)

Pages 8-9, 545



**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems

Pages 6-7, 533-535

Get the ideal combination of sound absorption and sound blocking for total noise control with Total Acoustics® ceiling systems. The Sustain® portfolio is free of chemicals of concern, and meets the most stringent sustainability compliance standards today.

## Specialty Ceiling Systems

### Tectum® Ceilings & Walls!

Choose quieting standard panels for ceilings or create your own custom Panel Art shapes for walls.

See Tectum® pages 390-397 for ceilings; pages 512-517 for walls; page 81 for Exposed Structure Solutions.

[armstrongceilings.com/tectum](http://armstrongceilings.com/tectum)



NOW PART OF  
THE ARMSTRONG  
PORTFOLIO

Energy Efficient  
**METALWORKS™**  
**AIRTITE™** Radiant  
Ceilings Systems

### WoodWorks® Linear Inside-Out

Now, exterior wood joins a broad range of looks from linear planks and panels to rich and warming standard, custom, and one-of-a-kind options.

See WoodWorks® pages 216-258 for ceilings; pages 520-529 for walls. [armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)



### MetalWorks™ Possibilities

Create unique designs with products from our broad standard, custom, and one-of-a-kind MetalWorks® family – from 3D panels to wood look planks... now with new perforation options.

See MetalWorks™ pages 162-215 for ceilings; pages 530-531 for walls. [armstrongceilings.com/metalworks](http://armstrongceilings.com/metalworks)



**PLASTERFORM®**  
Architectural  
Castings

Plasterform® architectural castings are lightweight, yet strong, durable, and easy to install with a broad range of materials for interior and exterior use.

Explore the use of columns, moldings, and ornamental details for your next design!

### Lighting Integration Check out new options for lighting integration.

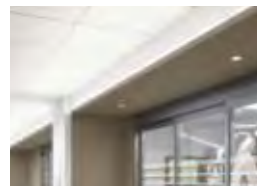
Details on pages 133, 418-419, and 423.



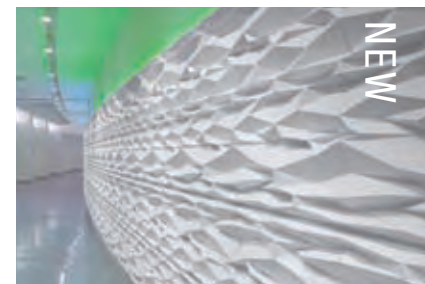
DESIGNFlex™ Lighting



Trimless Acoustical Lighting

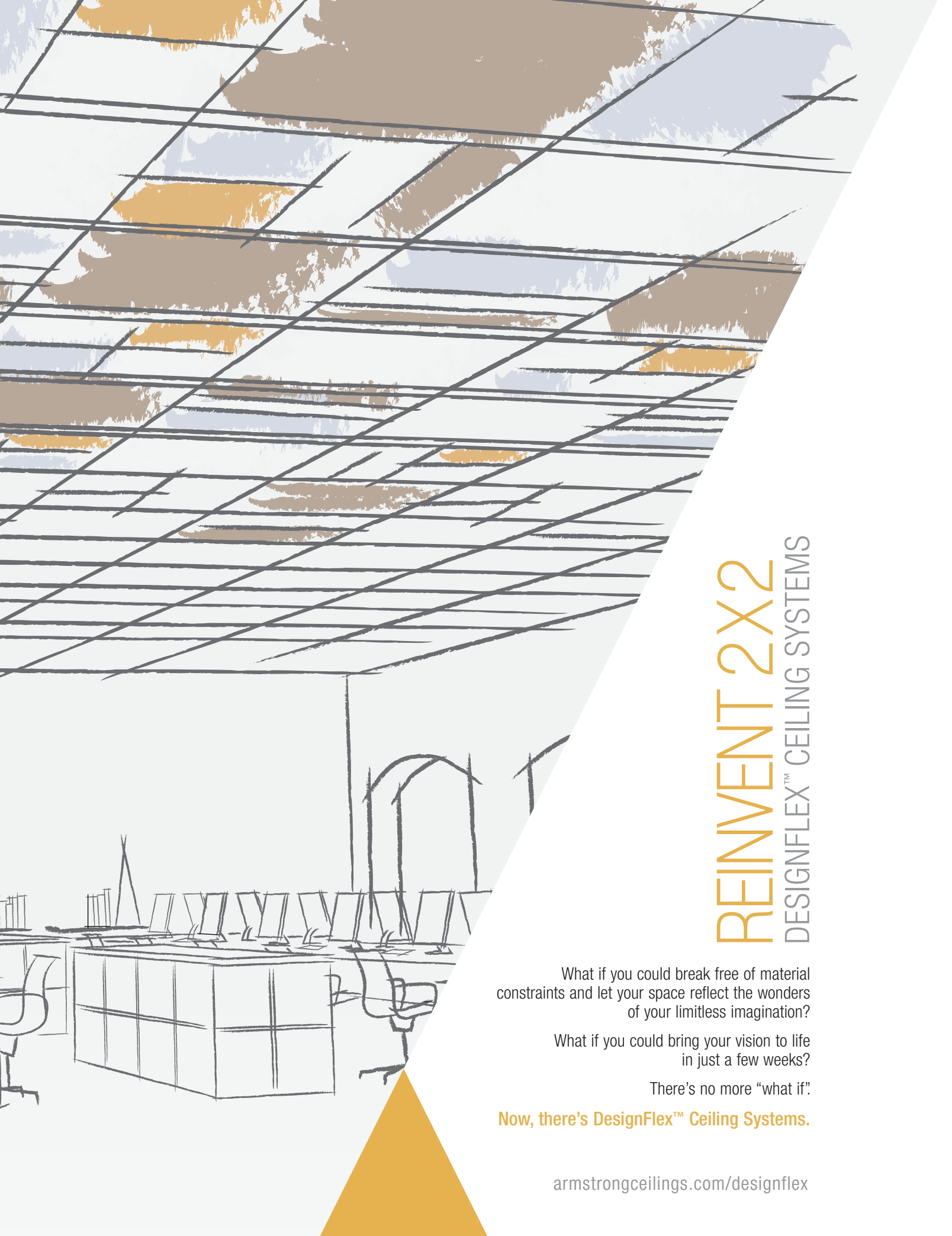


Axiom® Indirect Light Ledge



WHAT'S NEW

# WHAT'S NEW



# REINVENT 2X2

DESIGNFLEX™ CEILING SYSTEMS

What if you could break free of material constraints and let your space reflect the wonders of your limitless imagination?

What if you could bring your vision to life in just a few weeks?

There's no more "what if!"

**Now, there's DesignFlex™ Ceiling Systems.**

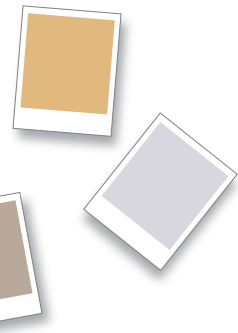
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



**DESIGNflex™**  
A New World of Choice  
for Ceiling Systems

Mix and match different sizes, shapes, colors, and materials to reinvent your ceiling!

See product pages  
128-161.



Calla® Shapes panels with Suprafine® XM 9/16" suspension system

DESIGNflex™ OVERVIEW

# BETTER SPACES



# EMBRACE GREEN SUSTAIN® PORTFOLIO

Meet today's most stringent sustainability compliance standards:

- Free of Red List Chemicals per the Living Building Challenge 3.0 (including no added formaldehyde)
  - Have HPDs & EPDs
  - Have Declare® labels
- Meet California Department of Public Health (CDPH) low emissions standards
  - Contribute to LEED v4

**Just look for the Sustain® icon.**



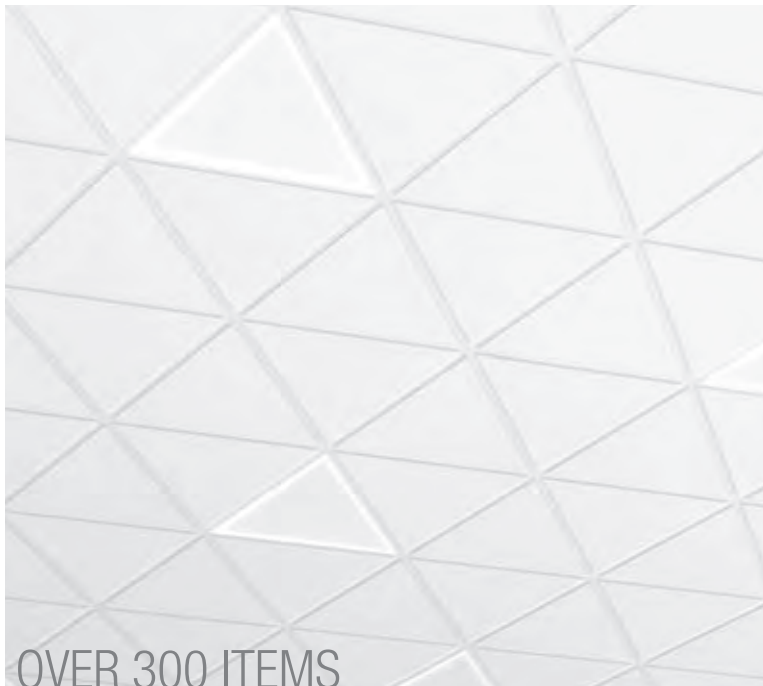
[armstrongceilings.com/sustain](http://armstrongceilings.com/sustain)  
[armstrongceilings.com/betterspaces](http://armstrongceilings.com/betterspaces)



Clean (Free of chemicals of concern per Living Building Challenge Red List)  
 + Simple (Easy to find – Look for our Sustain™ logo on our product pages)  
 = Sustain® (Meet today's most stringent industry sustainability standards)



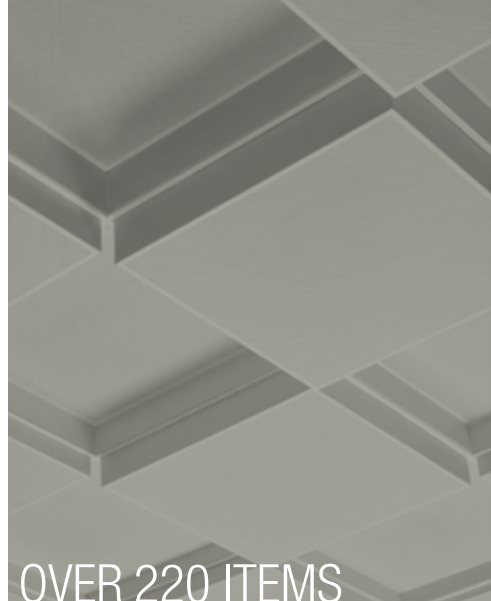
**SUSTAIN®**  
 High Performance Sustainable Ceiling Systems



OVER 300 ITEMS  
 Mineral Fiber / Fiberglass, Pgs. 264-389



OVER 285 ITEMS  
 Trims & Transitions, Pgs. 479-494



OVER 220 ITEMS  
 MetalWorks™, Pgs. 162-215



OVER 220 ITEMS  
 Suspension Systems, Pgs. 446-478



Tectum®, Pgs. 390-397

The Sustain® portfolio includes select Mineral Fiber/Fiberglass, MetalWorks™, Tectum®, Suspension System, Trim and Transition products.

See page 534 for an overview or look for the Sustain® icon on product-specific pages.

# BETTER SPACES



# CREATE QUIET

TOTAL ACOUSTICS®

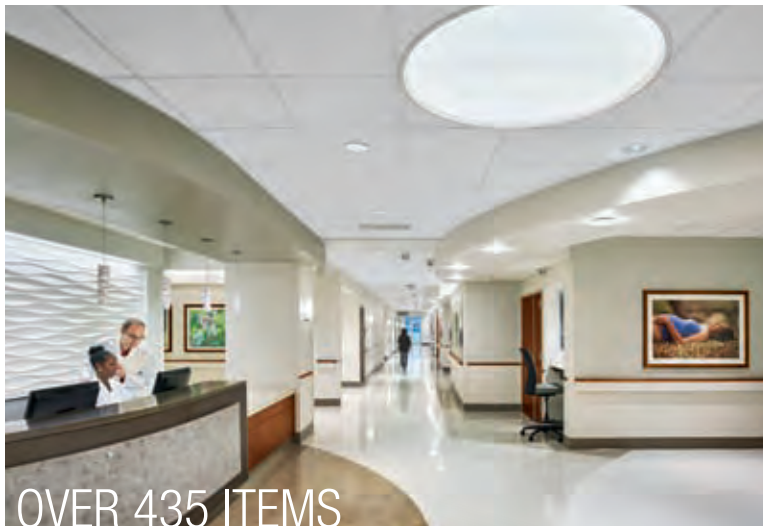
The ideal combination of sound absorption and sound blocking in one ceiling system.

Sound absorption reduces noise while sound blocking keeps it from traveling into adjacent spaces.

Together these attributes help you create quieter spaces – whether you are trying to reduce noise in concentration or focus spaces, creating collaborative environments, or needing to ensure confidentiality.

**Total noise control & design flexibility for today and for future space reconfigurations.**

NRC<sup>ABSORB</sup> + CAC<sup>BLOCK</sup>  
 = Total Acoustics  
 Performance<sup>®</sup>



OVER 435 ITEMS

Mineral Fiber, Pgs. 264-389



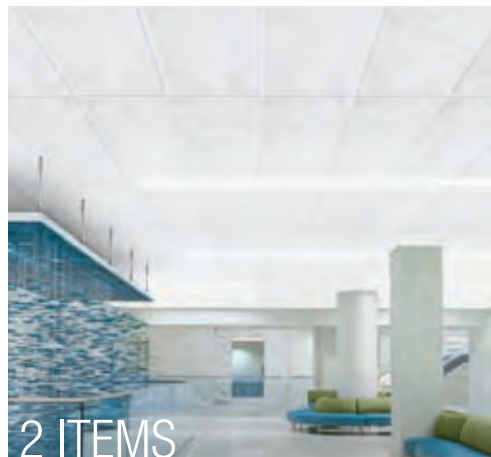
OVER 190 ITEMS

MetalWorks<sup>™</sup>, Pgs. 64-215



OVER 50 ITEMS

WoodWorks<sup>®</sup>, Pgs. 216-258



2 ITEMS

Tectum<sup>®</sup>, Pgs. 390-397

The Total Acoustics<sup>®</sup> portfolio includes select Mineral Fiber, MetalWorks<sup>™</sup>, WoodWorks<sup>®</sup>, and Tectum<sup>®</sup> ceiling panels.

For an overview of Good, Better, Best choices, see page 537.

TOTAL ACOUSTICS PERFORMANCE<sup>®</sup>

BETTER SPACES



# EXPOSED

STRUCTURE SOLUTIONS

Whether making a design statement that puts acoustical materials front and center, or opting for a more open, exposed structure look with a direct-attach solution to quiet noise, we've got hundreds of options to help you get the look you want and control noise, too.

**Spotlight or "hidden" acoustics – it's up to you.**





# CUSTOM LOOKS

STANDARD PRODUCTS

Design with standard items in unique ways –  
mix and match sizes, shapes and finishes.  
Go for it. Re-imagine standard.

**Who says it has to be custom to be unique?**

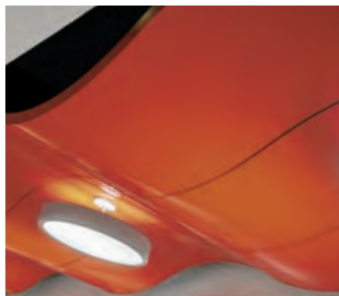
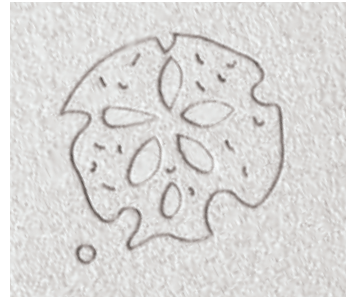
SIZES &  
SHAPES



FORMS &  
COLORS



IMAGES &  
PERFORATIONS



## STANDARD PRODUCTS

STANDARD PRODUCTS – CUSTOM LOOKS



# CUSTOM LOOKS

CUSTOM PRODUCTS

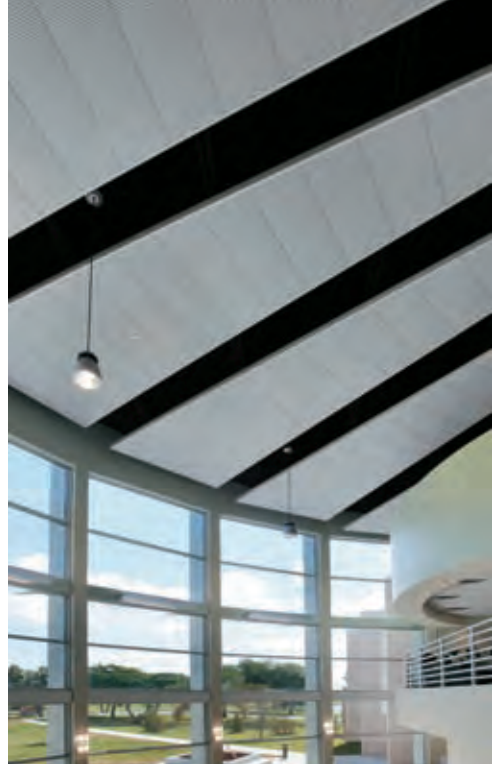
Find a new perspective – no matter what  
size or shape or form you're imagining.  
Tell a story about a new place.

**You dream it up, we'll help make it happen.**



▲ Top: MetalWorks™ Blades Custom, Pgs. 71-73

▼ Bottom: Serpentina® Waves™ Custom, Pgs. 104-107



▲ Top: MetalWorks™ RH200, Pg. 213

▼ Bottom: MetalWorks™ RH700, Pg. 212





# CUSTOM WALLS

TECTUM® PANELS

Durability and acoustics are yours in all sorts of Tectum® wall panels. Shapes, sizes, colors, and forms. No limits to confine your imagination.

**Go ahead, express yourself.**

▲ Top: Tectum® Direct-Attach Wall Panels, Pgs. 512-513

▼ Bottom: Tectum® Direct-Attach Wall Panels, Pgs. 512-513



▲ Top: Tectum® Panel Art Wall Panels, Pgs. 516

▼ Bottom: Tectum® Direct-Attach Wall Panels, Pgs. 512-513



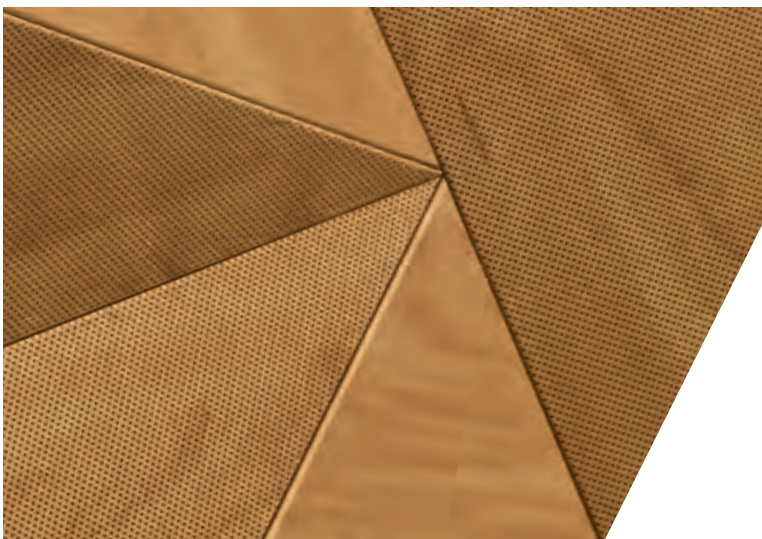
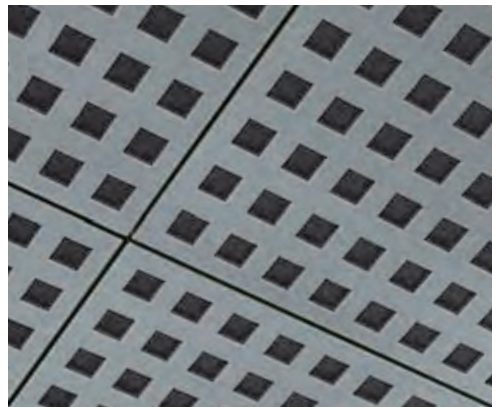
CUSTOM PRODUCTS – CUSTOM LOOKS



# CUSTOM PERFORATIONS METALWORKS™ PANELS

What inspires you to add character to your ceiling designs using negative space? Could it be the intricacy of an antique Persian lantern? Or the simple visual found on a pegboard.

**Create the unexpected.**





# ONE-OF A-KIND

WE CAN HELP!

Collaborative design  
Specifications  
Budgeting and planning  
Pre-construction assistance  
Installation recommendations

The YOU INSPIRE™ Solutions Center can help bring your most unique, one-of-a-kind ideas to life and help create your next great space.

1 800 988 2685

**you inspire™**  
solutions center

helping to bring your one-of-a-kind ideas to life

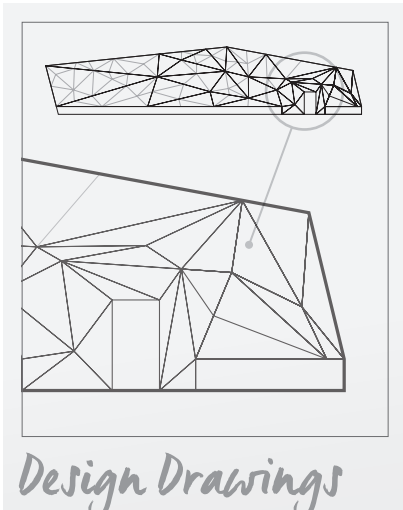
# Your Concept to Reality



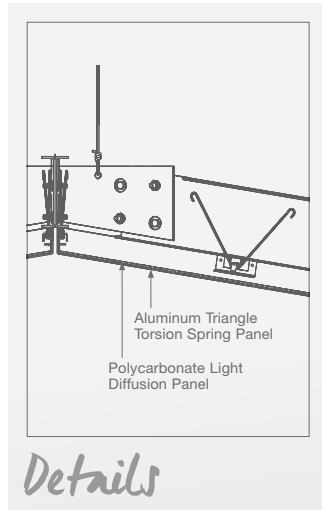
Concept



Collaboration



Design Drawings



Details



Reality

▲ Top and Bottom: MetalWorks™ RH215, Pg. 214

▼ Middle: MetalWorks™ Custom Louvered Panels, Pg. 211

ONE-OF-A-KIND CAPABILITIES



1

2

2

4

3



# INTEGRATED CEILING SOLUTIONS

DETAILS MAKE THE DIFFERENCE

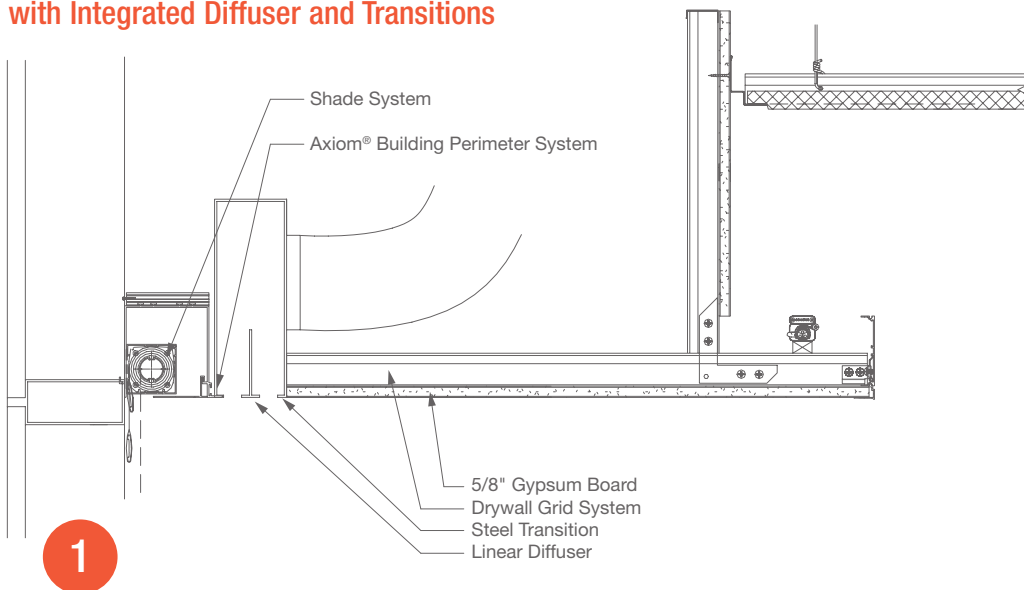
From integration of lighting, shade pockets, and air diffusers, to elevation changes, glass partitions, trims and accessories – we can help with the details that make a difference.

Optima® Plank Pgs. 348-353  
Drywall Grid Systems, Pgs. 430-431  
Axiom® Perimeter System Shade Pockets, Pgs. 357-362

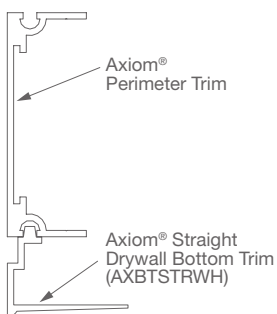
[armstrongceilings.com/integratedsolutions](http://armstrongceilings.com/integratedsolutions)



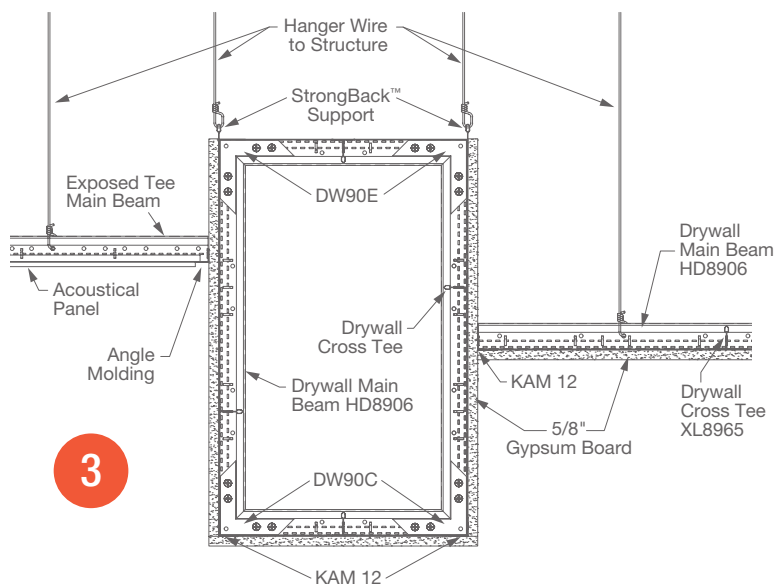
## Axiom® Building Perimeter Shade Pocket with Integrated Diffuser and Transitions



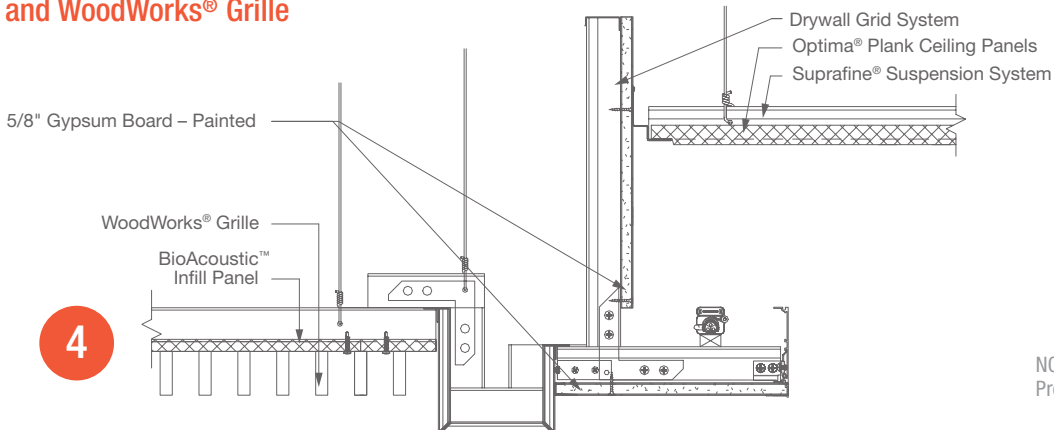
## Axiom® Two-Piece Drywall Trim



## Drywall Grid System Bulkhead



## Drywall Grid System and WoodWorks® Grille



NOTE: Architect Project Details



# CEILING

FOR EVERY SPACE

From kitchens and clean rooms to signature spaces and collaboration areas, we've got a ceiling for every space...plus the trims and transitions to take you from one end of the building to the other. Scroll through our online Ceiling for Every Space floor plans and project galleries for ideas and specific product recommendations.

**There's a ceiling for every space –  
visit our website.**



PLACES TO PLAY



PLACES TO HEAL



PLACES TO WORK



PLACES TO LEARN

PLACES TO GO



A CEILING FOR EVERY SPACE®

## Office

# WORK

From concentration to collaboration, confidential to creative, we've got the product choices to design effective, stimulating, inspiring spaces... including exposed structure solutions that bring quiet to design.



▲ Optima® Tegular panels with Axiom® Classic 6" trim  
Barton Mallow Company, Southfield, MI

# A CEILING FOR EVERY SPACE

From lobbies to conference rooms, our office ceiling solutions can deliver speech privacy, encourage collaborative interaction, help with concentration or simply inspire and engage – armstrongceilings/everypace.



1 WoodWorks® Grille



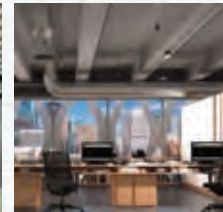
2 Ultima® Tegular and Axiom® Classic Trim



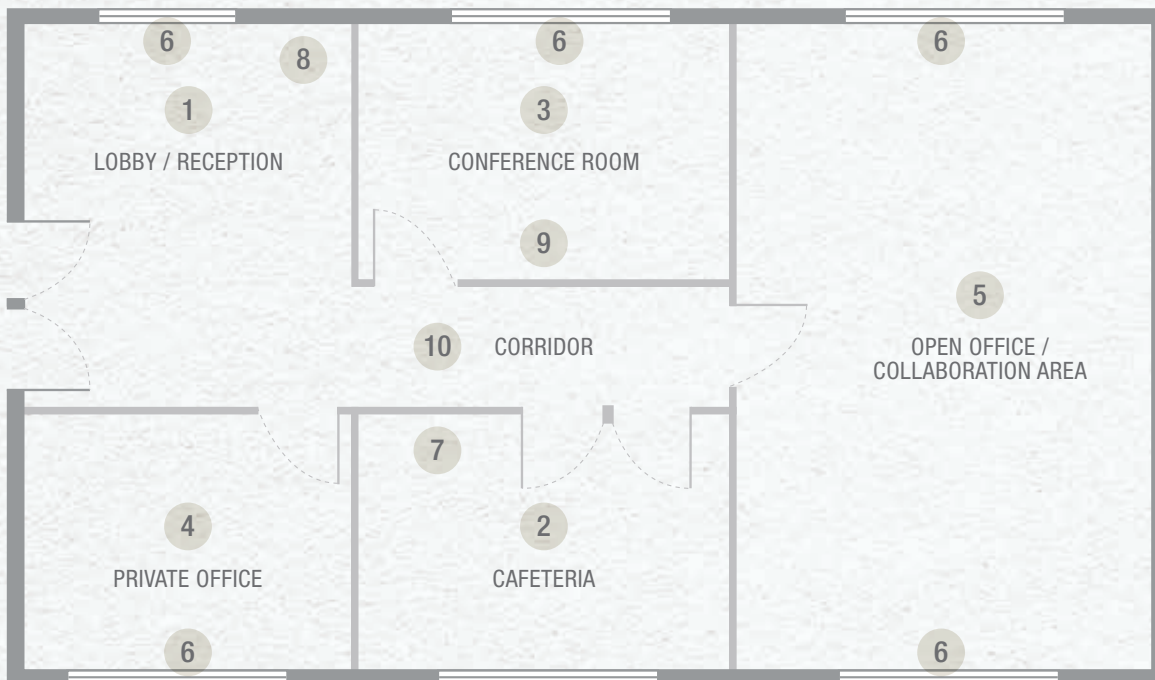
3 MetalWorks™ Torsion Spring



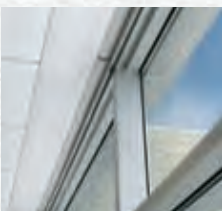
4 Serpentina® Waves™



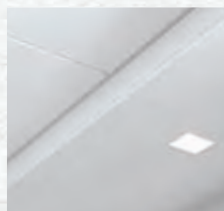
5 Invisacoustics™



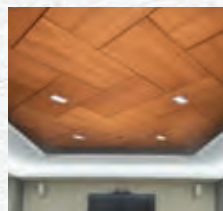
## Common Conditions in Offices



6 Window & Shade Pockets



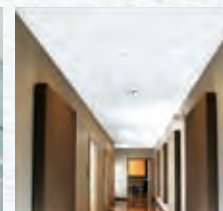
7 Transitions



8 Light Covers



9 Interior Glass Partitions

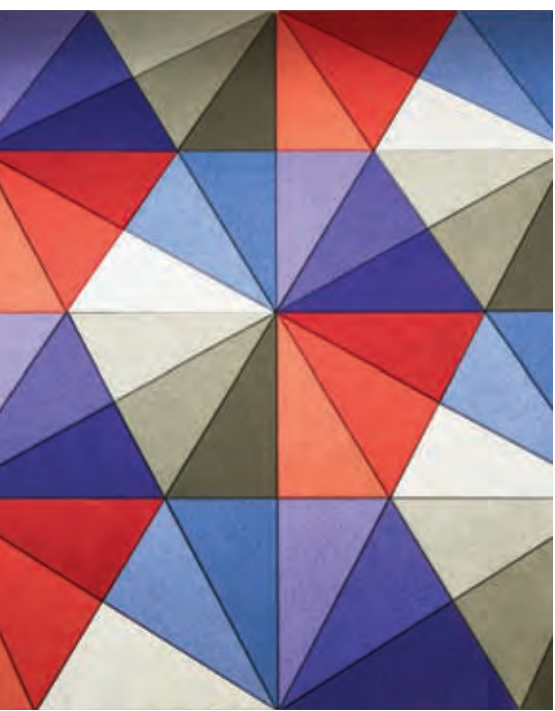


10 SingleSpan™ Corridor System

# WORK

Office





▼ Bottom Left: Tectum® Panel Art

▼ Bottom Right: Custom SoundScapes® Shapes in White  
Gardere Wynne Sewell, LLP, Dallas, TX  
Gensler and Associates

▲ Top: Optima® Vector® planks with Axiom® Classic trim  
World Wide Technology Headquarters, St. Louis, MO  
M+H Architects, St. Louis, MO



Office

# WORK







▲ Top Left: Serpentina® Classic Clouds

▼ Bottom: MetalWorks™ 3D in Reflections Laminate Light Cherry  
Holtec International, Camden, NJ  
USA Architects and Planners, Somerville, NJ

▲ Top Right: SoundScapes® Shapes  
VEEVA, Pleasanton, CA  
Brereton Architects, San Francisco, CA

## Retail & Hospitality

PLAY

Be it capturing a brand personality, creating a fun or flavorful space, or meeting strict industry standards, you can count on us for ceilings and walls that invite hospitality and encourage consumers.



▲ MetalWorks™ Linear Exterior in Effects™ Maple  
Torrance Memorial Medical Center, Torrance, CA  
HMC Ontario BC, CA

# A CEILING FOR EVERY SPACE

From the intimacy of a small boutique to relaxing guest rooms and high-traffic lobbies, welcoming choices are online for every space in retail and hospitality – armstrongceilings/everySPACE.



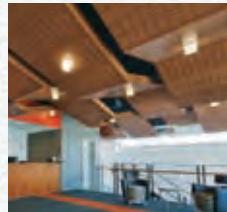
1 Infusions® Blades



2 InvisiAcoustics™ Basics



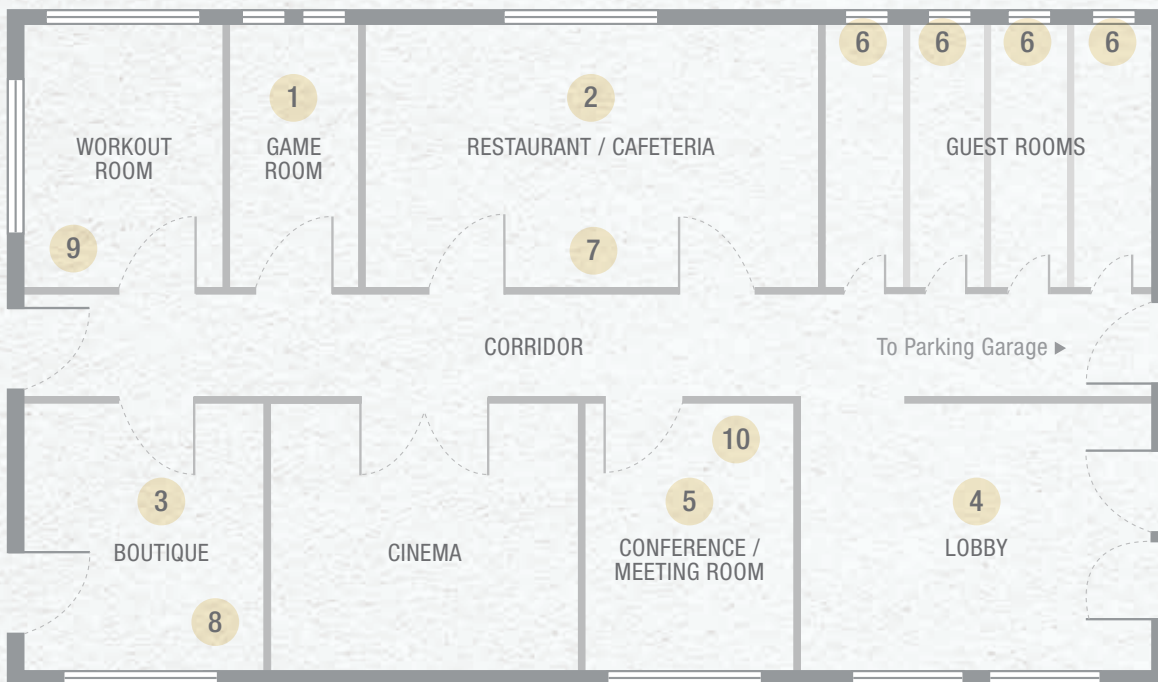
3 MetalWorks™ 3D



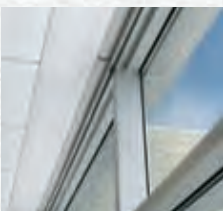
4 WoodWorks® Concealed



5 Serpentina® Waves



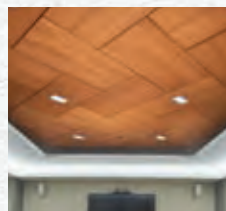
## Common Conditions in Retail & Hospitality



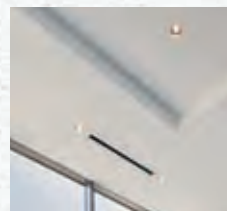
6 Window & Shade Pockets



7 Transitions



8 Light Covers



9 Soffits



10 Interior Glass Partitions



Retail &  
Hospitality

PLAY



▲ Top Left: SoundScapes® Shapes Clouds

▼ Bottom: MetalWorks™ 3D in Reflections™ Laminates Rock Maple; MetalWorks™ Tegular in Silver Grey The Cypress of Charlotte Retirement Community, Charlotte, NC Perkins Eastman, Charlotte, NC

▲ Top Right: Optima® Concealed Café Grace, Wauwatosa, WI Kahler Slater Architects, Milwaukee, WI

## Retail & Hospitality

# PLAY





▼ Bottom Left: MetalWorks™ Tin

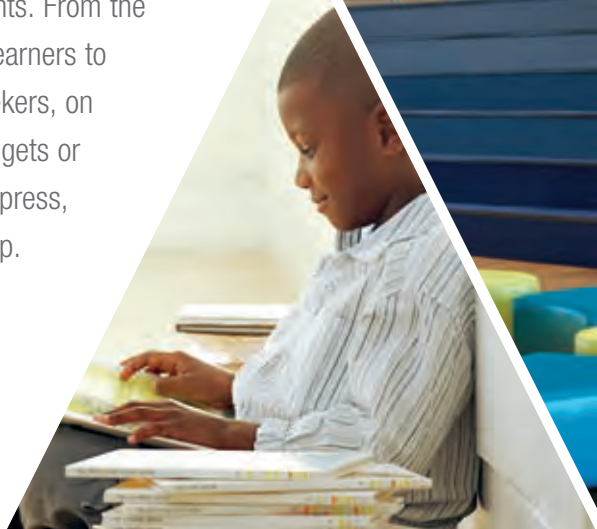
▼ Bottom Right: Serpentina® Waves™ in Silver Grey  
Destiny USA Mall, Syracuse, NY  
Holmes, King, Kallquist & Associates  
Architects, Syracuse, NY

▲ Top: MetalWorks™ Linear in Effects Dark Cherry  
WoodWorks® Channeled Walls in Natural Variations Dark Cherry  
NASA Goddard Space Flight Center Goett Auditorium, Greenbuild, MD  
Parsons, Inc.

## Education

LEARN

Balance design, inspiration, and function to create effective, inspiring, engaging learning environments. From the youngest learners to degree seekers, on limited budgets or vying to impress, we can help.





# A CEILING FOR EVERY SPACE

From an inspiring student union buildings to versatile elementary classrooms, find A+ choices online for every space in schools – [armstrongceilings/everyospace](http://armstrongceilings/everyospace).



1 Tectum® Panel Art Ceilings & Walls



2 SoundScapes® Shapes



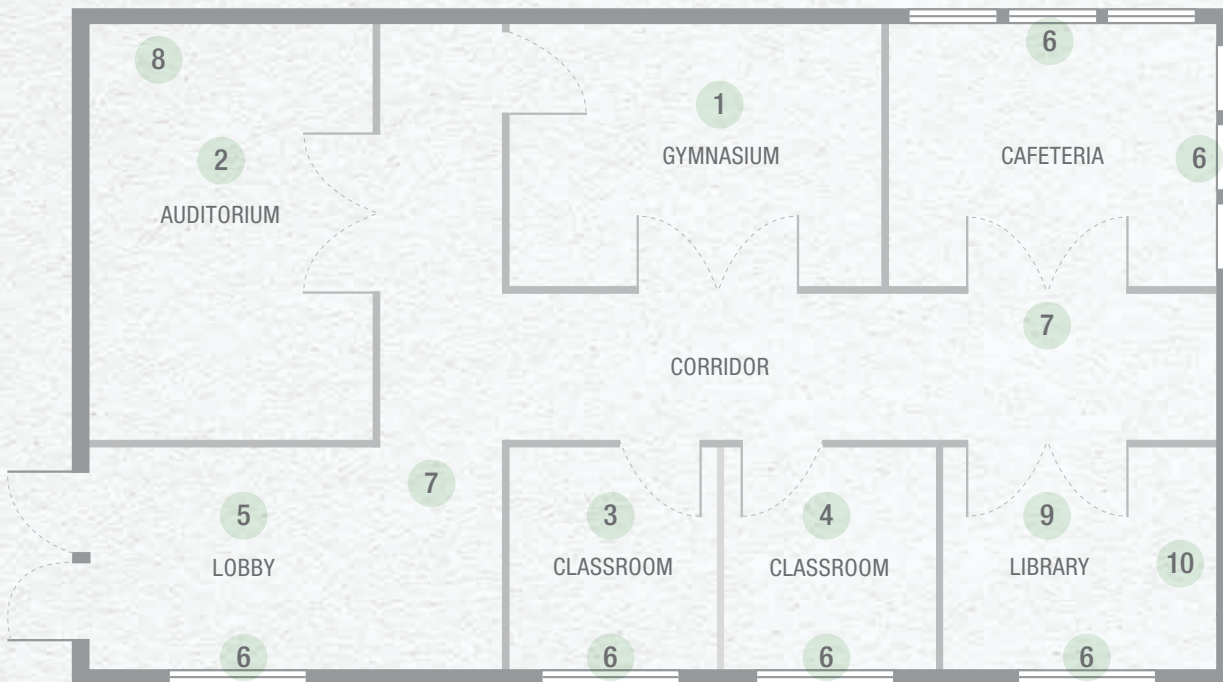
3 Ultima® TechZone®



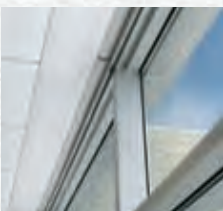
4 DESIGNFlex™ Ultima® Shapes



5 WoodWorks® Linear



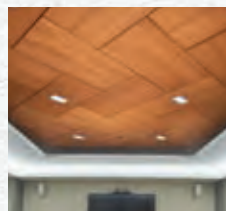
## Common Conditions in Schools



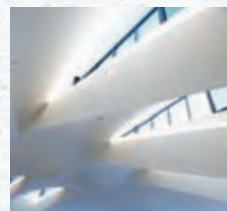
6 Window & Shade Pockets



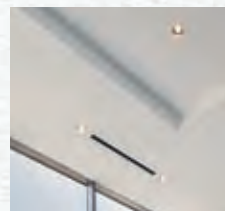
7 Transitions



8 Light Covers



9 Flat & Curved Drywall



10 Soffits

Education

LEARN

K-12



▲ Ultima® Vector Create!™ Custom panels  
Summerdale Elementary School, San Jose, CA  
McKim Design Group, San Jose, CA



▲ Top Left: Tectum® Direct-Attach Wall Panels

▼ Bottom: Serpentina® Classic in custom color Iron Forge Education Center, Boiling Springs, PA  
Crabtree Roherbaugh & Associates Architects  
Mechanicsburg, PA

▲ Top Right: SoundScapes® Blades™ in White; Calla® in Sky  
Cornerstone Academy, Atlanta, GA  
Chapman Coyle Chapman & Associates Architects  
Marietta, GA

Education

LEARN

Higher  
Education





▼ Bottom Left: Drywall Grid Systems

▼ Bottom Right: Tectum® Direct-Attach Ceilings in Custom shapes and colors  
Kalamazoo Public Library, Kalamazoo, MI  
David Millig Architects, Ann Arbor, MI

▲ Top: Woodworks® Canopies in Natural Variations Maple  
Polytech High School, Woodside, DE  
BSA+A Buck Simpers, Wilmington, DE

## Healthcare

Healing spaces call for warmth and energy, quiet and privacy, inspiration and function. We've got the solutions across our portfolio to meet your healthcare needs.

HEALTH



# A CEILING FOR EVERY SPACE

Now, there's no need to choose between design, privacy, quiet, comfort, and performance. Everything you need is online for every space in healthcare – [armstrongceilings/everyospace](http://armstrongceilings/everyospace).



1 Ultima® Health Zone™



2 WoodWorks®



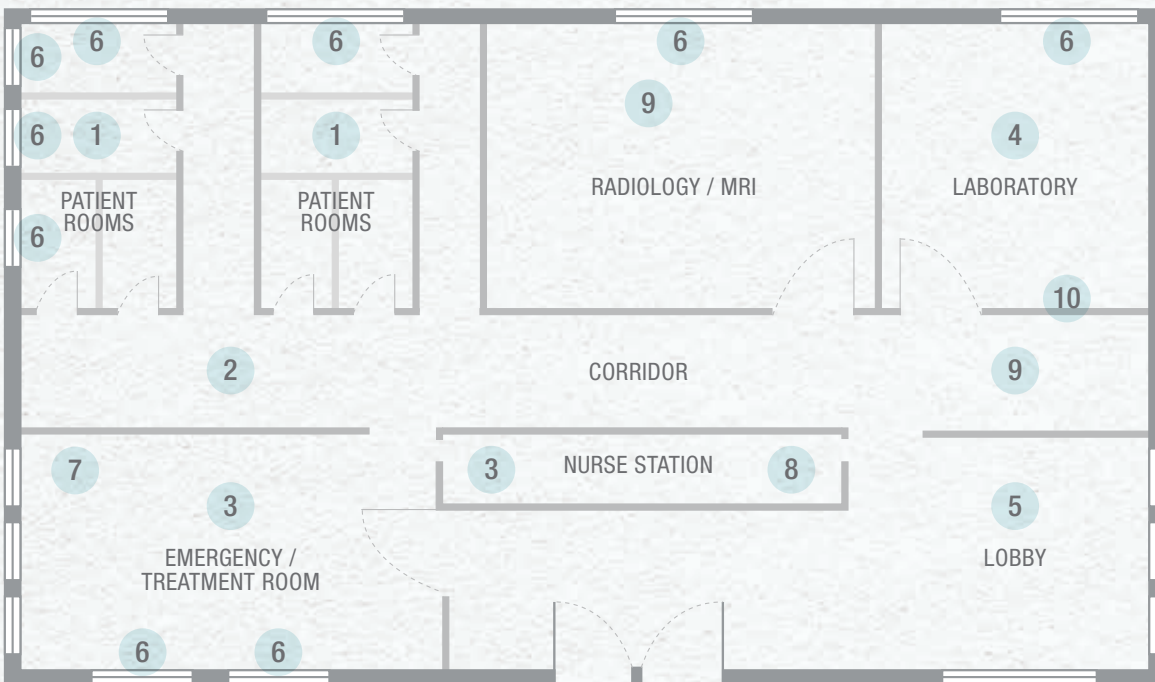
3 Cirrus®



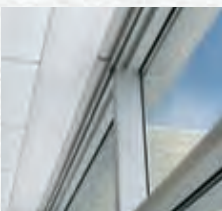
4 Ultima® Health Zone™



5 Optima® Radial



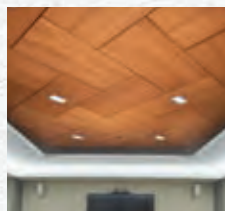
## Common Conditions in Healthcare



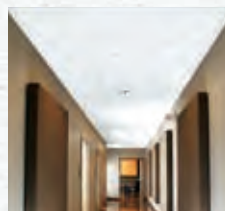
6 Window & Shade Pockets



7 Transitions



8 Light Covers



9 SingleSpan™ Corridor System



10 Interior Glass Partitions

# Healthcare

HEALTH







▼ Bottom Left: WoodWorks® Linear panels

▼ Bottom Right: SoundScapes® Shapes Trapezoid panels in White  
SPARK Holy Redeemer, Meadowbrook, PA  
MPM Studio, Pleasantville, NJ

▲ Top: MetalWorks™ RH200 in Effects™ Cherry Ultima® Health Zone™ tegular panels in White  
Inova Women's and Children's Hospital, Falls Church, VA  
Wilnot Sanz Architects, Gaithersburg, MD

## Healthcare

HEAL





▲ Top Left: WoodWorks® Custom Concealed Panels

▼ Bottom: Optima® TechZone® with 6" Techzone® Technical panels in white  
Torrance Medical Center, Torrance, CA  
HMC Ontario BC, CA

▲ Top Right: MetalWorks™ TechZone® panels and 6" TechZone® technical panels in Silverlume  
Geisinger Medical Center in Mount Pleasant, Scranton, PA  
Burkavage Design Associates



## Transportation

From passenger waiting areas to retail stores, curbside pick-up to high impact lobbies, you've got plenty of choices to design extraordinary experiences for on the go travelers.

GO

# A CEILING FOR EVERY SPACE

Whether your airport ceilings float, curve, swerve, or take flight, we're on board with your needs – go online for every space in transportation – [armstrongceilings/everySPACE](http://armstrongceilings/everySPACE).



1 MetalWorks™ Tegular



2 MetalWorks™ Torsion Spring



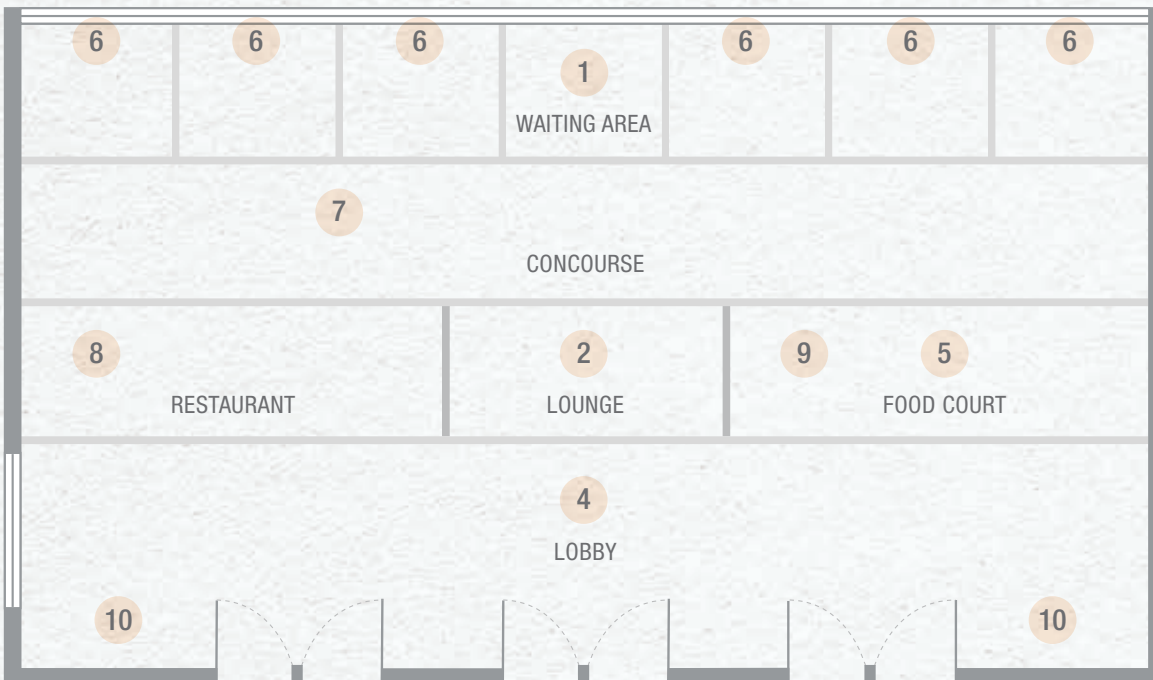
3 Optima® TechZone®



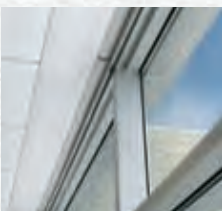
4 MetalWorks™ Torsion Spring



5 WoodWorks® Access



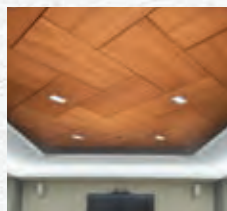
## Common Conditions in Transportation



6 Window & Shade Pockets



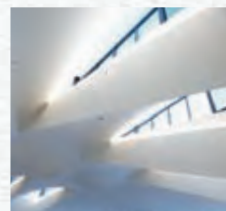
7 Transitions



8 Light Covers



9 Soffits



10 Flat & Curved Drywall



# Transportation

GO

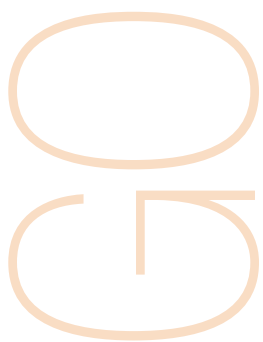


▼ Bottom Left: MetalWorks™ RH200 panels

▼ Bottom Right: WoodWorks® Linear in Light Cherry Logan International Airport, Boston, MA Arrowstreet, Inc, Boston, MA

▲ Top: WoodWorks® Grille in Light Cherry MetalWorks™ RH200 in White Logan International Airport, Boston, MA Arrowstreet, Inc, Boston, MA

# Transportation







▼ Top Left: MetalWorks™ RH200 clouds

▼ Bottom: MetalWorks™ Torsion Spring in Silverlume Irvine Spectrum Parking Garage, Irvine, CA LPA, Inc., Irvine, CA

▲ Top Right: Optima® TechZone® Panels with 6" TechZone® technical panels Milwaukee General Mitchell International Airport, Milwaukee, WI Engberg Anderson, Inc., Milwaukee, WI

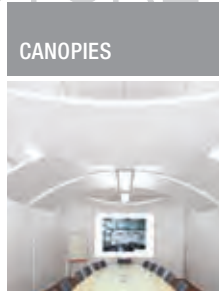
# EXPOSED STRUCTURE SOLUTIONS

## PRODUCT PORTFOLIO AT-A-GLANCE

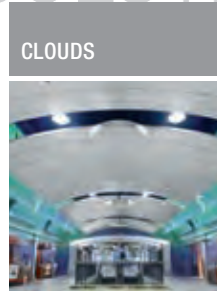
METAL



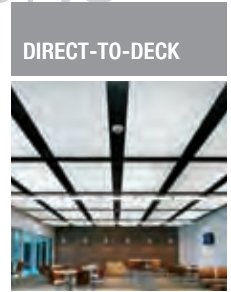
METALWORKS™ Blades™  
Pgs. 71-73



METALWORKS™ Canopies  
armstrongceilings.com/metalworks



SERPENTINA® Waves  
Pgs. 104-107



METALWORKS™ Capz™  
Pgs. 119-121

WOOD



WOODWORKS® Canopies  
Pg. 115



WOODWORKS Custom Clouds  
Pgs. 212-215

MINERAL FIBER



SOUNDSOAK® Baffles  
Pg. 80



SOUNDSCAPES® Canopies  
Pgs. 108-109



FORMATIONS™ Clouds  
Pgs. 86-97



**new** Invisacoustics™  
Pgs. 122-123

FIBERGLASS



SOUNDSCAPES® Blades™  
Pgs. 74-79



SOUNDSCAPES® Shapes  
Pgs. 110-113



SOUNDSCAPES® Shapes  
Pgs. 110-113

TECTUM®  
WOOD FIBER –  
CEMENTITIOUS



TECTUM® Blades™  
Pg. 81



TECTUM® Clouds  
Pg. 114



TECTUM® Direct-Attach  
Pgs. 124-125

TRANSLUCENT  
MATERIALS



INFUSIONS® Blades  
Pg. 70



INFUSIONS® Canopies  
Pg. 98



INFUSIONS® Shapes  
Pg. 99

# CEILING SYSTEMS

METAL

## DESIGNFlex™



**new** METALWORKS™ Shapes  
Pgs. 152-155

## STANDARD 2' X 2' PANELS



METALWORKS™ Tegular  
Pgs. 174-177

## VECTOR®/ CONCEALED



METALWORKS™ Vector®  
Pgs. 178-179

## PLANKS



**new** METALWORKS Linear  
Pgs. 184-187

## RADIAL



METALWORKS Radial  
Pg. 214

WOOD

## COMING FALL 2018! WoodWorks® Shapes for DESIGNFlex™

WOODWORKS® Shapes



WOODWORKS® Tegular  
Pgs. 224-227



WOODWORKS® Concealed  
Pgs. 236-237



WOODWORKS Linear  
Pgs. 244-249

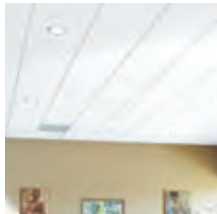


WOODWORKS Radial  
Pg. 258

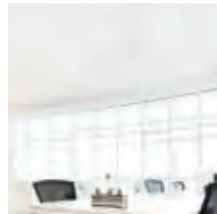
MINERAL FIBER



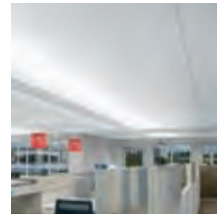
**new** CALLA™ Shapes  
Pgs. 134-137



CALLA®  
Pgs. 274-279



**new** CALLA™ Vector®  
Pgs. 280-281



ULTIMA Plank  
Pgs. 376-383

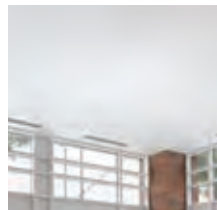
FIBERGLASS



**new** LYRA™ Shapes  
Pgs. 138-141



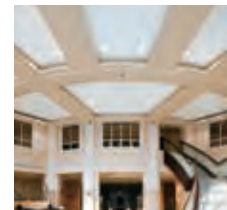
LYRA™  
Pgs. 330-335



**new** LYRA® Vector®  
Pgs. 336-337



OPTIMA Plank  
Pgs. 344-353



OPTIMA Radial  
Pgs. 362-363

TECTUM®  
WOOD FIBER –  
CEMENTITIOUS



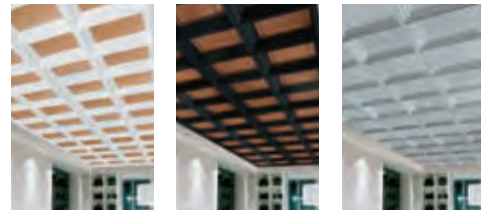
TECTUM® Panels  
Pgs. 394-397

TRANSLUCENT  
MATERIALS



INFUSIONS® Panels  
Pgs. 260-263

## COFFERS

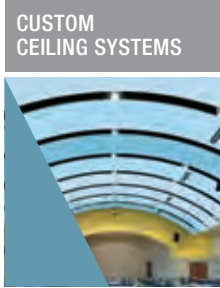


METAPHORS® Coffers with Translucent, Metal,  
and Mineral Fiber Panels  
Pgs. 342-343

PORTFOLIO AT-A-GLANCE

# CUSTOM CEILING SYSTEMS

## PRODUCT PORTFOLIO AT-A-GLANCE



METAL

METALWORKS™ Custom  
Pgs. 212-215



WOOD

WOODWORKS® Custom  
Pgs. 255-258



MINERAL FIBER & FIBERGLASS



TECTUM® WOOD FIBER - CEMENTITIOUS

TECTUM® Finale™  
Pgs. 126



TRANSLUCENT MATERIALS

INFUSIONS Custom Panels  
Pgs. 260-263

# WALL SYSTEMS



METAL



WOOD

WOODWORKS® Standard Walls  
Pgs. 520-521



MINERAL FIBER & FIBERGLASS

SOUNDSOAK® Standard Walls  
Pg. 517

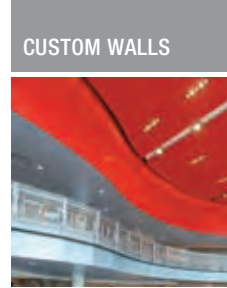


TECTUM® WOOD FIBER - CEMENTITIOUS

TECTUM® Direct-Attach Walls  
Pgs. 512-513



TECTUM® WOOD FIBER - CEMENTITIOUS



Custom Metal Walls  
Pg. 530



WOODWORKS® Custom Walls  
Pg. 531



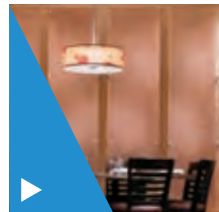
SOUNDSOAK® Custom Walls  
Pg. 518



TECTUM® Panel Art  
Pg. 516



TECTUM® Fabric Walls  
Pg. 515



TRANSLUCENT MATERIALS

INFUSIONS™ Walls  
Pg. 527

# INTEGRATED SOLUTIONS

## SERVICES



TECHZONE® Ceiling Systems  
Pgs. 402-407

## LIGHTING – LINEAR



TECHZONE® Linear Lighting  
Pg. 407

## LIGHTING – COVE



Light Coves with  
AXIOM® Trim – Direct  
Pg. 420

## LIGHTING – DOWNLIGHTS



**new** Intersection Downlighting  
Pgs. 416-417

## SHADE POCKETS



Shade Pockets – AXIOM®  
Building Perimeter Systems  
Pgs. 424-427



Data Centers  
Pgs. 410-411



Acoustical On-Center  
Lighting  
Pg. 412



Field Light Coves –  
Indirect  
Pg. 421



**new** Downlighting with  
Center Cut Panels  
Pg. 418-419



Shade Pockets – AXIOM®  
Building Perimeter Systems  
(Lutron®-compatible)  
Pgs. 428-429



DC FLEXZONE™  
Pgs. 408-409



Drywall Linear Lighting  
Pg. 413



**new** Light Coves with  
AXIOM® Trim – Indirect  
Pg. 422

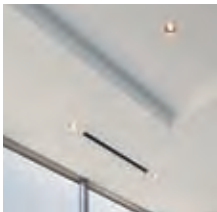
## COMMON BUILDING CONDITIONS



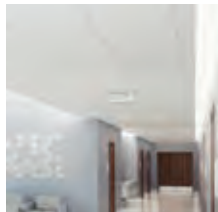
Windows & Shade Pockets  
Pg. 433



Transitions  
Pgs. 434-436



Bulkheads & Soffits  
Pg. 437



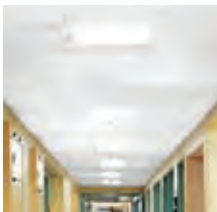
Light Coves & Pockets  
Pgs. 438-439



Flat & Curved Drywall  
Pg. 440



Interior Glass Partitions  
Pg. 441



Corridors  
Pg. 442-443

PORTFOLIO AT-A-GLANCE

# CEILING SYSTEMS SELECTOR – SPECIALTY CEILING SYSTEMS



Look for this icon indicating new products or new additions to product families. Visit our website for details.

Product information listed in this chart pertains to general product families and may not apply to each individual product item. Before specifying or purchasing products, consult product details at [www.armstrongceilings.com](http://www.armstrongceilings.com).

	Page No.	PANEL SIZE											SUSPENSION SYSTEM FACE			EDGE PROFILE											
		12" x 12"	12" x 24"	12" x 48"	12" x 60"	12" x 72"	20" x 60"	24" x 24"	24" x 48"	24" x 60"	24" x 72"	24" x 96"	30" x 30"	48" x 48"	Other Sizes/Shapes	Concealed/Vector	9/16"	15/16"	Square Lay-in	Square Tegular	Angled Tegular	Beveled Tegular	Vector®	Other Edge Profiles			
VERTICAL ELEMENTS	INFUSIONS® Blades – Concepts™	70																									
	METALWORKS™ Blades – Concepts™/Classics™	71-73																									
	SOUNDSCAPES® Blades™	74-79																									
	SOUNDISOAK® Baffles	80																									
	TECTUM® Blades™ & Baffles	81																									
CANOPIES & CLOUDS	FORMATIONS™	86-97																									
	INFUSIONS® Canopies	98																									
	INFUSIONS® Shapes	99																									
	SERPENTINA® Classic/Waves/Vault	100-107																									
	SOUNDSCAPES® Canopies	108-109																									
	SOUNDSCAPES® Shapes	110-113																									
	TECTUM® Clouds	114																									
	WOODWORKS® Canopies	115																									
	DIRECT-TO-DECK	CAPZ™	119-121																								
TECTUM® Direct-Attach		124-125																									
TECTUM® Finale		126																									
TECTUM® Panel Art		127																									
METALWORKS	METALWORKS™ Tegular	174-177																									
	METALWORKS™ Vector®	178-179																									
	METALWORKS™ Clip-on	180-181																									
	METALWORKS™ Concealed	182-183																									
	METALWORKS™ Linear	184-187																									
	METALWORKS™ Mesh™	188-191																									
	METALWORKS™ Open Cell	192-193																									
	METALWORKS™ Plank	194-195																									
	METALWORKS™ SecureLock™	196-197																									
	METALWORKS™ Snap-in	198-199																									
	METALWORKS™ 3D	200-201																									
	METALWORKS™ Tin	202-203																									
	METALWORKS™ Torsion Spring	204-208																									
	WOODWORKS	WOODWORKS® Tegular	224-227																								
WOODWORKS® Vector®		228-229																									
WOODWORKS® Channeled		230-235																									
WOODWORKS® Concealed		236-237																									
WOODWORKS® Grille		238-243																									
WOODWORKS® Linear		244-249																									
WOODWORKS® Open Cell		250-251																									
TECTUM® WOOD FIBER – CEMENTITIOUS	TECTUM® Lay-in	394-395																									
	TECTUM® Tegular	396-397																									
TRANSLUCENT	INFUSIONS® Translucent Panels	260-263																									

Armstrong products are sold subject to limited warranties; general warranty information is available at [armstrongceilings.com/warranty](http://armstrongceilings.com/warranty). Full copies of the applicable warranty are available by calling 1 877 276-7876.

TEXTURE	VISUAL	COLOR	SUBSTRATE	PERFORMANCE CRITERIA																		
				High Acoustical	Fire Performance	High Light Reflectance	BioBlock/Inherent	Sag Resistance	Certified Low VOC	EPD Available	Soil Resistance	Scrubability	Washability	Water-Repellent	Scratch Resistance	Impact Resistance	Exterior	Recycle Program	High Recycled Content	Ceiling-2-Ceiling™	10-Year Availability	
Fine																						
Medium																						
Coarse																						
Smooth																						
Panels																						
Planks																						
Cloud/Canopy																						
White																						
Tech Black																						
Other Colors/Finishes																						
Mineral Fiber																						
Fiberglass																						
Wood Fiber - Cementitious																						
Metal																						
Wood																						
BioAcoustic™																						
Translucent																						
High Acoustical																						
Fire Performance																						
High Light Reflectance																						
BioBlock/Inherent																						
Sag Resistance																						
Certified Low VOC																						
EPD Available																						
Soil Resistance																						
Scrubability																						
Washability																						
Water-Repellent																						
Scratch Resistance																						
Impact Resistance																						
Exterior																						
Recycle Program																						
High Recycled Content																						
Ceiling-2-Ceiling™																						
10-Year Availability																						

**Acoustical Performance**  
 High Acoustical Performance

**Fire Performance**  
 Fire Guard™ L - Local Fire Resistant

**Light Reflectance**  
 High Light Reflectance

**HumiGuard® Humidity Resistance**  
 Sag Resistance: S - Standard 4 drops / HumiGuard Max 3 drops / HumiGuard Plus

**Anti-Microbial Protection**  
 BioBlock® inhibits or retards growth of mold and mildew

**Durability**  

- Soil Resistance
- Scrubability
- Washability
- Scratch Resistance
- Impact Resistance

**Recycling**  
 Part of Armstrong Recycling Program  
 Post-consumer recycled content is from reclaimed ceilings

# CEILING SYSTEMS SELECTOR – CEILING PANELS



Look for this icon indicating new products or new additions to product families. Visit our website for details.

Product information listed in this chart pertains to general product families and may not apply to each individual product item. Before specifying or purchasing products, consult product details at [www.armstrongceilings.com](http://www.armstrongceilings.com).

Page No.

	Page No.	PANEL SIZE											SUSPENSION SYSTEM FACE			EDGE PROFILE					TEXTURE														
		12" x 12"	12" x 24"	12" x 48"	12" x 60"	12" x 72"	20" x 60"	24" x 24"	24" x 48"	24" x 60"	24" x 72"	24" x 96"	30" x 30"	48" x 48"	Shapes/Made-to-Order	Concealed/Vector	9/16"	15/16"	Square Lay-in	Square Tegular	Angled Tegular	Beveled Tegular	Vector®	Other Edge Profiles	Fine	Medium	Coarse	Smooth							
ARMATUFF®	271								•	•				•				•													•				
CALLA™	274-281									•	•				•				•				•								•				
CANYON®	282-283									•	•								•												•				
CERAMAGUARD®/CERAMAGUARD® FINE FISSURED™	284-285									•	•								•												•				
CIRRUS®/CIRRUS® High NRC	286-291									•	•								•												•				
CIRRUS Profiles	292-293									•													•									•			
CIRRUS® Second Look®	294-295										•												•									•			
CIRRUS® Themes™	296-297										•												•									•			
Clean Room™ FL/VL/VL	298-299										•	•							•													•			
CORTEGA®/CORTEGA® Second Look®	300-301							•	•	•	•												•									•			
CREATE!™	302-304										•												•									•			
DESIGNER™	305										•	•																				•			
DUNE™/DUNE™ Second Look®	306-309									•	•	•											•									•			
FINE FISSURED™/FINE FISSURED™ High NRC	310-319	•						•	•	•	•												•									•			
FINE FISSURED™ Second Look®	320											•											•									•			
FISSURED™	321											•										•										•			
GEORGIAN™/GEORGIAN™ High Washability	322-323										•	•											•									•			
GRAPHIS® Finetex™/Rustex™	324-325										•												•									•			
KITCHEN ZONE™	326-327										•	•																				•			
LEDGES®	328-329											•											•										•		
LYRA® PB/LYRA® PB High CAC	330-337			•							•	•	•	•	•	•	•	•	•	•			•									•			
LYRA® Concealed	338-339											•																					•		
MESA™/MESA™ Second Look®	340-341											•	•										•									•			
METAPHORS® Coffers	342-343												•																				•		
OPTIMA®/OPTIMA® PB	344-353									•	•	•	•	•	•	•	•	•	•													•			
OPTIMA® Concealed	356-357												•										•										•		
OPTIMA® Vector®	354-355		•										•																				•		
OPTIMA® Health Zone™	358-361													•									•										•		
PAINTED NUBBY™	364-365													•																			•		
PEBBLE™	366-367														•																		•		
RANDOM FISSURED™/SHASTA	368, 369																																•		
School Zone® FINE FISSURED™	370-371														•							•	•									•			
School Zone® GEORGIAN™	370-371																																•		
TINCRAFT™	372-373																																	•	
TUNDRA®	374-375																																•		
ULTIMA®/ULTIMA® High NRC	376-383		•	•	•	•									•								•										•		
ULTIMA® Vector®	384-385		•																														•		
ULTIMA® Health Zone™/ULTIMA® Health Zone™ High NRC	386-389																																	•	
CALLA™ Shapes for DESIGNFlex™																				•													•		
LYRA® Shapes for DESIGNFlex™																				•														•	
OPTIMA® Shapes for DESIGNFlex™																				•														•	
ULTIMA® Shapes for DESIGNFlex™																					•													•	
METALWORKS™ Shapes for DESIGNFlex™																																		•	
METALWORKS™ Tegular for DESIGNFlex™			•	•																•														•	

MINERAL FIBER & FIBERGLASS

DESIGNFlex™

Armstrong products are sold subject to limited warranties; general warranty information is available at [armstrongceilings.com/warranty](http://armstrongceilings.com/warranty). Full copies of the applicable warranty are available by calling 1 877 276-7876.

**Armstrong 30-Year System Performance Guarantee – find product warranties at [armstrongceilings.com/warranty](http://armstrongceilings.com/warranty)**



- Armstrong HumiGuard® ceiling systems will resist visible sag
- Armstrong BioBlock® ceiling systems will resist the growth of mold and mildew

This guarantee also applies to Armstrong ceiling products that are formulated to inherently resist the growth of micro-organisms: Ceramaguard, Optima, Painted Nubby, and Vinyl-faced Fiberglass ceiling products.

(Applies when Armstrong® Commercial suspension systems and Armstrong Commercial ceiling products are installed and used together.)





# EXPOSED STRUCTURE SOLUTIONS

## Recommendations to Reduce Reverberation Time & Improve Acoustics

		Model Room	Reverberation Time (RT) / Sabins (s)				
		<b>SPOTLIGHT™ ACOUSTICS BLADES™ &amp; BAFFLES</b>	1,000 ft² Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	<b>GOOD</b> RT=1.4s	<b>BETTER</b> RT=1.0s	<b>BEST</b> RT=0.6s	
	MetalWorks™ Blades™ Pages 71-73	Area of Blades™ # of 4 x 96 x 1" Blades™ % of Deck Coverage	240 ft² 90 6%	477 ft² 179 12%	1005 ft² 377 25%		
	SoundScapes® Blades™ Pages 74-79	Area of Blades™ # of 22 x 46 x 2" Blades™ % of Deck Coverage	141 ft² 20 1%	281 ft² 40 3%	604 ft² 86 6%		
	Soundsoak® Baffles Page 80	Area of Baffles # of 24 x 48 x 2" Baffles % of Deck Coverage	112 ft² 14 1%	216 ft² 27 2%	464 ft² 58 4%		
	Tectum® Baffles Page 81	Area of Baffles # of 24 x 48 x 1" Baffles % of Deck Coverage	600 ft² 75 3%	1,184 ft² 148 5%	2,496 ft² 312 10%		
	Tectum® Blades™ Page 81	Area of Blades™ # of 24 x 48 x 1" Blades™ % of Deck Coverage	600 ft² 75 3%	1,184 ft² 148 5%	2,496 ft² 312 10%		
			<b>SPOTLIGHT™ ACOUSTICS CLOUDS &amp; CANOPIES</b>	1,000 ft² Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	<b>GOOD</b> RT=1.4s	<b>BETTER</b> RT=1.0s	<b>BEST</b> RT=0.6s
	Formations™ Pages 86-97	Area of Clouds # of 96" x 96" Ultima® Squares % of Deck Coverage	256 ft² 4 26%	512 ft² 8 51%	1,088 ft² N/A N/A		
	MetalWorks™ Canopies armstrongceilings.com/metalworks	Area of Canopies # of 72" x 48" Canopies % of Deck Coverage	168 ft² 7 17%	336 ft² 14 34%	720 ft² 30 72%		
	Serpentina® Pages 100-107	Area of Clouds # of 96" x 96" Clouds % of Deck Coverage	192 ft² 3 19%	384 ft² 6 38%	768 ft² 12 77%		
	SoundScapes® Shapes Pages 110-113	Area of Shapes # of 48" x 48" Shapes % of Deck Coverage	192 ft² 12 19%	386 ft² 23 37%	784 ft² 49 78%		
	Tectum® Shapes & Clouds Page 114	Area of Clouds # of 48 x 48 x 1-1/2" Clouds % of Deck Coverage	368 ft² 23 37%	704 ft² 44 70%	N/A N/A N/A		
	WoodWorks® Canopies Page 115	Area of Canopies # of 72" x 48" Canopies % of Deck Coverage	384 ft² 12 38%	736 ft² 23 74%	1,632 ft² N/A N/A		
			<b>DIRECT-TO-DECK ACOUSTICS DIRECT-ATTACH</b>	1,000 ft² Exposed Structure (15' to metal deck), drywall with 20% window coverage, commercial carpet	<b>GOOD</b> RT=1.4s	<b>BETTER</b> RT=1.0s	<b>BEST</b> RT=0.6s
	InvisAcoustics™ Basics Pages 122-123	Area of Ceiling Panels % of Deck Coverage	280 ft² 28%	560 ft² 56%	N/A N/A		
	MetalWorks™ Capz™ Pages 119-121	Area of MetalWorks™ Panels % of Deck Coverage	200 ft² 20%	400 ft² 40%	850 ft² 85%		
SoundScapes® Blades™ Pages 74-79	Area of Blades™ # of 22 x 46 x 2" Blades™ % of Deck Coverage	141 ft² 20 1%	281 ft² 40 3%	604 ft² 86 6%			
Tectum® Direct-Attach Panels Pages 124-125	Area of Ceiling Panels % of Deck Coverage	214 ft² 21%	420 ft² 42%	900 ft² 90%			

N/A indicates that the option is not recommended to achieve a BEST level reverberation time. Coverage level suggests a wall-to-wall ceiling is a better choice to achieve recommended reverberation times. "° of Deck Coverage" is defined as the visible deck area covered by a ceiling solution.



# EXPOSED STRUCTURE

EXPOSED STRUCTURE SOLUTIONS



## You Can Use Blades™ Panels and Baffles to Enhance Design and Acoustical Performance

Acoustical absorption is important to:

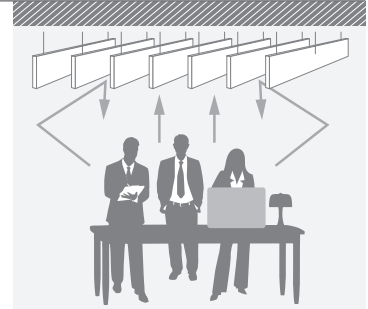
- Reduce noise levels and reverberation time
- Enhance speech intelligibility

### Sabin

The preferred metric for measuring acoustics for "space absorbers" like Blades™ panels and baffles.

Acoustical absorption for a suspended ceiling is calculated by multiplying the exposed surface area by the material NRC while "space absorbers" are directly measured.

Acoustical Blades™ panels and baffles can provide greater sound absorption than a continuous ceiling of the same surface area, because the sound is absorbed from both the front and back surfaces.

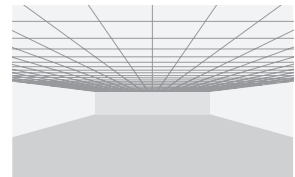
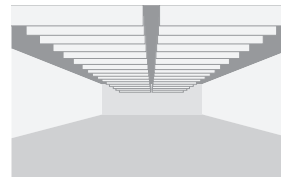


Example:

Exposed Structure

Blades™ Panels Installation

Continuous Ceiling



5,000 SF Exposed Structure (50' x 100'), 15' to deck, drywall with windows on two sides, commercial carpet

	No Treatment (0% Coverage)	SoundScapes® Shapes (50% coverage)	Optima® Continuous Ceiling (100% Coverage)
<b>Ceiling</b>	Exposed Structure	156 Shapes: 46" x 46" Squares	Suspended 60" Below Deck
<b>Sabin/SF</b>	0	1.38	0.90
<b>Reverberation Time</b>	3.4 sec	1.0 sec	0.5 sec
<b>RT Improvement</b>	ref	72%	86%
<b>SPL Reduction</b>	ref	-4.0 dB	-6.0 dB

For definitions of acoustical terms, see Pgs. 546-547 in this catalog.



# BLADES™ BAFFLES

EXPOSED STRUCTURE – BLADES™ & BAFFLES



INFUSIONS® Blades – Concepts™ Pg. 70



METALWORKS™ Blades – Concepts™ Pg. 71



METALWORKS™ Blades – Classics™ Pgs. 72-73



SOUNDSCAPES® Blades Pgs. 74-79



SOUNDSOAK® Baffles Pg. 80




TECTUM® Blades & Baffles Pg. 81



### ICON KEY

Icons are used throughout the catalog to help you quickly identify key products with high level of performance.

#### Acoustics

 Sabin measures are noted under physical data for each product.


#### Seismic

 Category D, E & F

#### Fire Performance

Class A

#### Light Reflectance


 Light reflectance of 0.75 or greater.

#### BioBlock®

 Resists the growth of mold and mildew

#### Humidity/Sag Resistance

##### HumiGuard® Plus

 Recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

#### High Durability


##### Washability

 Offers superior wash resistance without compromising panel finish integrity.


##### Scrubbability

 Withstands up to 150 scrub cycles using a scrubability tester as per modified ASTM D2486


##### Impact Resistance

 Excellent resistance to surface impact

##### Scratch Resistance

 Excellent resistance to surface scratching, scuffing, or chipping as per Hess Rake Test.


##### Soil Resistance


 Excellent resistance to dirt and/or grease for lasting value and performance.

##### Color Availability

 Available in color.

##### Sustainability

 Product is part of Sustain® Portfolio and meets the most stringent sustainability compliance standards today.

 Product is recyclable through the Armstrong Recycling Program.

For more information about Blades™ and Baffles panels, in addition to custom options, contact TechLine at 1 877 276-7876

# Blades™ & Baffles At-a-Glance

## METALWORKS™ BLADES – CLASSICS™

### Standard Colors



Whitelume (WHA)



Silverlume (SIA)



Gun Metal (MYA)

### Effects™ Finishes



Effects Maple (FXMP)



Effects Oak (FXOK)



Effects Cherry (FXCH)



Effects Dark Cherry (FXDC)



Effects Walnut (FXWN)



Effects Walnut Espresso (FXWE)



Custom Colors Available



Cherry (CCH)



Walnut (CWN)



Mahogany (CMH)

## METALWORKS™ BLADES – CONCEPTS™

## SOUNDSCAPES® BLADES™



White (WH)



Shell (SH)



Pale Lemon (LM)



Pecan (PC)



Sky (SK)



Moss (MS)



Stone (SE)



Reef (RE)



Lagoon (LA)



Plum (PM)



Cranberry (CN)



Kiwi (KW)



Tangerine (TG)



Black (BK)



Custom Colors Available

To see coordinating Ultima® & Optima® Create!™ panel colors, visit [armstrongceilings.com](http://armstrongceilings.com)

## SOUNDSOAK® BAFFLES

### Woven Fabric Surface – Fiberglass Cores

#### FR-701® (partial list)



Silver Papier (SP)



Bone (BO)



Quartz (OZ)



Opal (OP)



Wheat (WE)



Straw (ST)



Terra (TR)



Leaf (LE)



Cement Mix (CM)



Blue Neutral (BN)



Blue Papier (BR)



Grey Mix (GM)



Crystal Blue (CB)



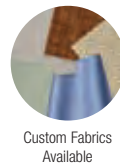
Blue Spruce (BS)



Violet (VI)



Ultramarine (UM)



Custom Fabrics Available

## TECTUM® BLADES & BAFFLES



Tectum Natural (TNA)



Tectum White (TWH)



Custom Colors Available

### Sailcloth Fabric Surface



White (SCWE)



Silver (SCSR)



Yellow (SCYW)



Red (SCRD)



Royal (SCRL)



Maroon (SCMN)



Navy (SCNY)



Black (SCEK)



Custom Colors Available

## INFUSIONS® BLADES – CONCEPTS™

### Solids



Cultured Pearl (TCP)



Inspiration Ice (TNC)



Calm Water (TCW)



Natural Faith (TNF)



Loyalty Latte (TLL)



Caribbean Renewal (TAR)



Sage Happiness (TSH)



Peace Blue (TPB)



Sheer Iris (TSI)



Blueberry Bliss (TBB)



Sedona Spirit (TSS)



Red Fire (TRF)

### SoundScapes® Coordinating Colors



Refined Kiwi (TRK)



Refined Reef (TRR)



Refined Lagoon (TRL)



Refined Plum (TRP)



Refined Tangerine (TRT)



Refined Black (TRB)

### Patterns



Spun Copper (TSC)



Crushed Copper (TCC)



Natural Linen (TNL)\*



Blue Linen (TBL)\*



Crystalline Focus (TCR)



Crystalline Silverado (TSV)



Crystalline Sky (TSY)



Indigo Surf (TNS)

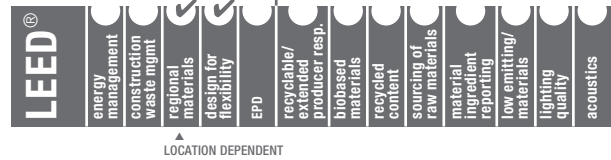


Clear Arbor (TCA)

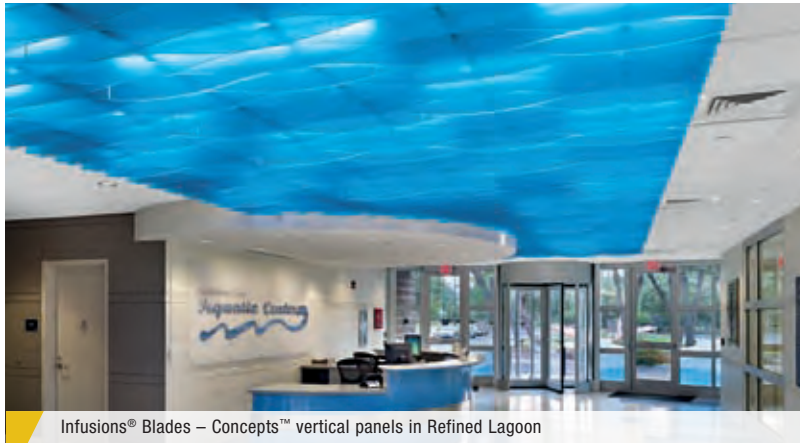
\* Color may vary panel to panel

# INFUSIONS® Blades – Concepts™

Linear Panels  
smooth texture



LOCATION DEPENDENT



Infusions® Blades – Concepts™ vertical panels in Refined Lagoon

Playful translucent vertical panels, with unique wave designs, interplay with lighting, colors, and textures.

## KEY SELECTION ATTRIBUTES

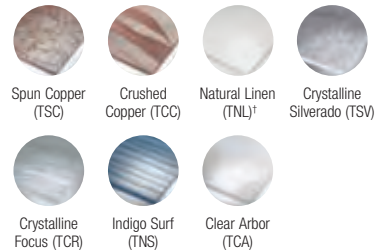
- Create a colorful accent area or add dramatic visual impact with a full-room installation
- Unique wave designs can create a variety of visuals depending on the spacing of the vertical panels and the direction of installation
- Translucent Infusions® Blades – Concepts™ panels coordinate with Armstrong® ceiling products and other interior finishes, including Infusions® Walls, Partitions and Canopies, and SoundScapes® Blades™ and Shapes

**COLORS (partial list)** For all colors see pg. 69  
Due to printing limitations, shade may vary from actual product.

### Solids



### Patterns\*



† Color may vary panel to panel  
\* Due to the unique nature of the woven fabric used in these products, color may vary from panel to panel.

## PANEL SELECTION

Edge Profile	Item No. ♦	Dimensions Nominal H x L † (Inches) Custom Sizes Available
	<b>7087</b>	6 x 48 x 1/4" 
	<b>7086</b>	6 x 72 x 1/4" 
	<b>7085</b>	6 x 96 x 1/4" 

## PERFORMANCE

Fire Rating	Warranty
Class A	1-Yr
Class A	1-Yr
Class A	1-Yr

♦ When specifying or ordering, include the appropriate 3-letter color suffix. (Example: 7086 I S H)  
† Thickness of panels varies by pattern from 0.245" to 0.298".

## SUSPENSION COMPONENTS

Item Number	Description	Color	Pcs./Ctn.
<b>7137AB</b>	96" Suspension Bar with connector holes on both ends	Anodized Black	8 bars/4 connectors
<b>6651AB</b>	Suspension Bar End-to-End Connectors	Anodized Black	5
<b>6655</b>	Blades™ Hanging Kit**	Metal	1 kit – 4 hanging points

\*\* Each Blades™ Hanging Kit includes four hanging assemblies. Use one kit for each suspension bar.

## PHYSICAL DATA

### Material

Polycarbonate

### Surface Finish

Smooth

### Fire Performance

Infusions® Blades – Concepts™ panels have been tested according to NFPA 286 and are equivalent to Class A Interior Finish as defined by the International Building Code.

Designers and Installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

Contact TechLine at 1 877 276-7876 for specific US and Canadian fire performance data.

### Design Considerations

Infusions® Blades – Concepts™ panels are not approved for exterior application.

Due to the unique nature of the woven fabric used in this product, Natural Linen and Blue Linen colors may vary panel to panel.

The wave design on Infusions® Blades – Concepts™ panels is a 4' pattern. Six-foot Blades™ panels should only be paired with 48" or 96" Blades panels. Six-foot Blades panels should not be placed end-to-end when used with 48" and 96" Blades panels.

### Installation Considerations

Do not allow panel edges to get wet or be exposed to moisture.

Any fixtures adjacent to Infusions® Blades – Concepts™ panels must be independently supported. There is potential for limited natural deflection of panels.

Infusions® Blades – Concepts™ panels can be damaged by exposure to high temperatures. Panel temperature should not be permitted to exceed 100°F.

Follow these guidelines for minimum distance from standard light sources.

LAMP TYPE	LABEL WATTAGE	MINIMUM DISTANCE
Halogen FL XL PAR 30	60	14"
Incandescent Bulb	120	15"
Quartz Halogen Work Light	500	23"

Additional light transmission information is available at [armstrongceilings.com/infusions](http://armstrongceilings.com/infusions)

Spacing between two adjacent Blades™ panel ends must be a minimum of 1/4".

### Seismic Restraint

Infusions Blades – Concepts panels have been engineered, tested, and approved for use in all seismic areas. OSHPD/DSA installations may require additional attachment from panel to suspension bar. Consult Armstrong Ceilings to special order panels to accommodate these applications.

### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Pieces/Carton

1.63 lbs/LF  
7085, 7086 – 8 pcs/ctn  
7087 – 16 pcs/ctn

TechLine / 1 877 276 7876  
[armstrongceilings.com/infusions](http://armstrongceilings.com/infusions)  
(search: infusions blades concepts)  
BPCS-5091-718

LEED® is a registered trademark of the U.S. Green Building Council®  
All other trademarks used herein are the property of  
AWI Licensing LLC and/or its affiliates © 2018 AWI Licensing LLC  
Printed in the United States of America



EXPOSED STRUCTURE – BLADES™ & BAFFLES



# METALWORKS™ Blades – Concepts™

Linear Panels  
smooth texture

UP TO **20%** RECYCLED CONTENT

For LEED contribution contact TechLine

LEED®	energy management	construction waste to right	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	lowbased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-----------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

WITH INFILL PANEL



MetalWorks™ Blades – Concepts™ vertical panels in Walnut

Vertical panels in unique wave designs, are available in rich, wood-look visuals.

## KEY SELECTION ATTRIBUTES

- Create an accent area or add dramatic visual impact with a full-room installation
- Unique wave designs can create a variety of visuals depending on the spacing of panels and the direction of installation
- Rich wood looks bring warmth to any space
- Perfect for both renovation and new construction projects

**COLORS** Due to printing limitations, shade may vary from actual product.



## PANEL SELECTION

Edge Profile	Item No. ♦	Dimensions Nominal H x L (Inches) Custom Sizes Available
	<b>7090</b> _ _ _	48 x 6 x .157"
	<b>7089</b> _ _ _	72 x 6 x .157"
	<b>7088</b> _ _ _	96 x 6 x .157"

♦ When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 7088 **C C H**)

## PERFORMANCE

Dots represent high level of performance.

Wash	Scrub	Scratch	Soil
•	•	•	•
•	•	•	•
•	•	•	•

Durability

## SUSPENSION COMPONENTS

Item Number	Description	Color	Pcs./Ctn.
<b>7208AB</b>	96" Suspension Bar with connector holes on both ends	Anodized Black	10 bars/5 connectors
<b>6651AB</b>	Suspension Bar End-to-End Connectors	Anodized Black	5
<b>6655</b>	Blades™ Hanging Kit*	Metal	1 kit

\* Each Blades™ Hanging Kit includes four hanging assemblies. Use one kit for each suspension bar.

## PHYSICAL DATA

**Material**  
Aluminum composite material – .157" thick (Aluminum with fire-retardant mineral core)

**Surface Finish**  
Factory-applied polyester paint

**Fire Performance**  
Tested per ASTM E84. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

**Recycled Content**  
Up to 20% recycled content

**Design Considerations**  
MetalWorks™ Blades – Concepts™ panels are not approved for exterior application.  
Lighting will reflect differently through cut edges.  
The wave design on MetalWorks™ Blades – Concepts™ panels is a 48" pattern. Six-foot Blades™ panels should only be paired with 48" or 96" Blades panels. Six-foot Blades panels should not be placed end-to-end when used with 48" and 96" Blades panels

**Installation Considerations**  
Any fixtures adjacent to MetalWorks™ Blades – Concepts™ panels must be independently supported.  
Adjacent panel ends must be spaced a minimum of 1/4" apart.

**Design Support**  
Project management assistance is available by calling TechLine at 1 877 276-7876.

**Seismic Restraint**  
MetalWorks™ Blades – Concepts™ panels have been engineered, tested, and approved for use in all seismic areas. OSHPD/DSA installations may require additional attachment from panel to suspension bar. Consult Armstrong Ceilings to special order panels to accommodate these applications. Refer to ASCE 7–10, section 13.5 architectural components for details on seismic requirements.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Pieces per Carton**  
0.50 lbs/LF; 10 pcs

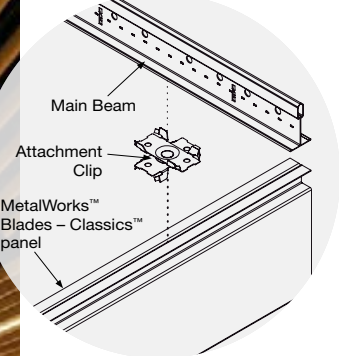
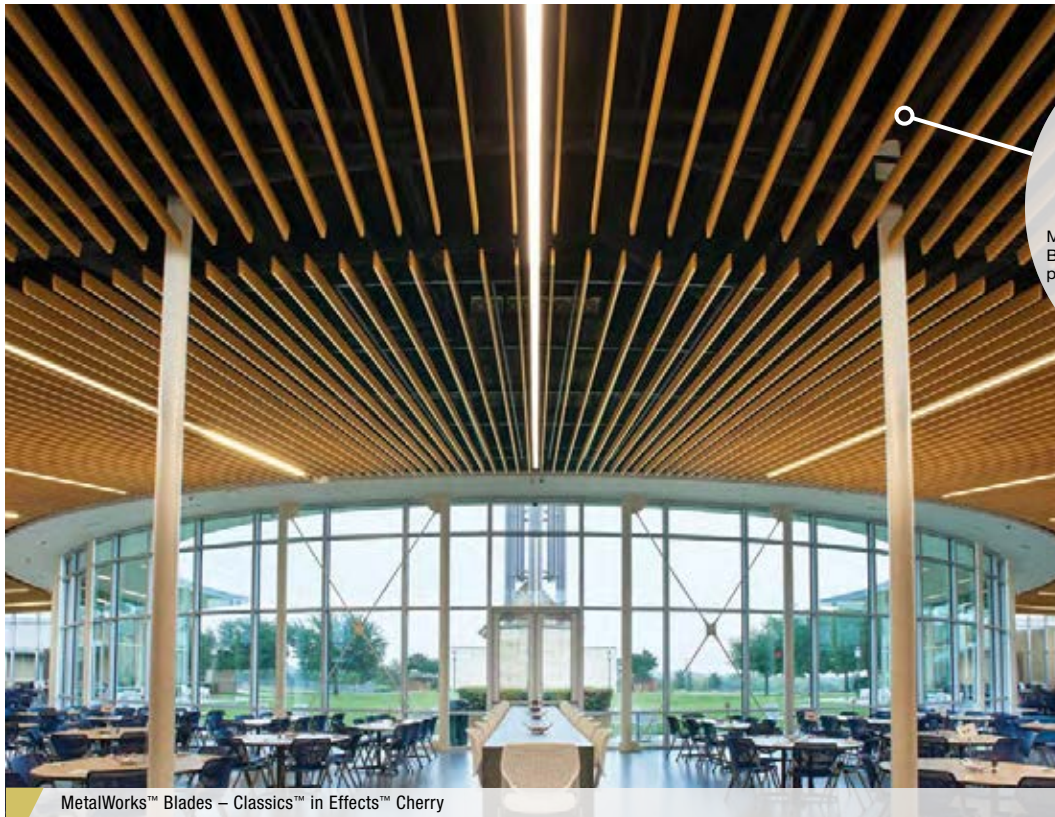
TechLine / 1 877 276-7876  
[armstrongceilings.com/metalworks](http://armstrongceilings.com/metalworks)  
(search: metalworks blades concepts)  
BPCS-5093-1218

LEED® is a registered trademark of the U.S. Green Building Council®  
All other trademarks used herein are the property of  
AWI Licensing LLC and/or its affiliates © 2018 AWI Licensing LLC  
Printed in the United States of America

# METALWORKS™ Blades – Classics™

Linear Panels with Acoustical Options  
smooth texture

CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



plus capabilities  
to do more

[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

MetalWorks™ Blades – Classics™ in Effects™ Cherry

Durable metal vertical panels in upscale linear designs are available in acoustical or non-acoustical options.

## KEY SELECTION ATTRIBUTES

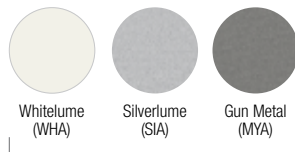
- Now available in 23" and 47" lengths for creative design layouts
- Blades™ panels come with two factory-installed end caps, one end cap, or no end caps
  - Join several Blades™ panels together to create a longer run
  - Use double end capped panel for access areas
  - Introducing the Field Cut End Cap for maximum jobsite flexibility (sold separately)
- Six Wood Looks Effects™ finishes
- Create acoustical or non-acoustical upscale linear designs
- Blades panel spacing is variable to accommodate a variety of design and acoustical needs
- MetalWorks™ Blades – Classics™ panels are part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- Fast, easy installation with standard Prelude® XL® 15/16" or 360° painted suspension systems



Field Cut End Cap shown inserted and uninstalled.

## COLORS

Due to printing limitations, shade may vary from actual product.



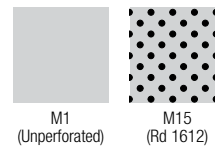
Part of the Sustain® portfolio, meeting sustainability compliance standards



Custom Colors Available

## PERFORATION OPTIONS

(1:2 scale shown)



Additional sizes and colors may be available. For more information, visit our web site at [armstrongceilings.com/metalworks](http://armstrongceilings.com/metalworks) or contact Architectural Specialties TechLine at 1 877 276-7876 for custom panel lengths.

# METALWORKS™ Blades – Classics™

Linear Panels with Acoustical Options  
smooth texture

Declare™  
Living Building  
Challenge Compliant

SUSTAIN™  
High Performance  
Sustainable  
Ceiling Systems  
Unperforated (M1)



UP TO 80% RECYCLED CONTENT

For LEED contribution contact TechLine

LEED®	energy management	construction waste to mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	bio-based materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	----------------------------	--------------------	------------------------	-----	------------------------------------	---------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

## VISUAL SELECTION

## PERFORMANCE

Dots represent high level of performance.

WITH INFILL PANEL

Edge Profile	Item No. ♦	Description/Dimensions L x W x D (Inches) Custom Sizes Available	
	<b>8157</b>	Vertical panel with caps on both ends 94-1/2 x 4 x 1"	
	<b>8156</b>	Vertical panel with caps on both ends 46-1/2 x 4 x 1"	
	<b>8155</b>	Vertical panel with caps on both ends 22-1/2 x 4 x 1"	
	<b>7202</b>	Vertical panel with cap on one end 96 x 4 x 1"	
	<b>7203</b>	Vertical panel with no end caps 96 x 4 x 1"	

Sabins/Panel	Wash	Scrub	Soil
2.5	•	•	•
1.2	•	•	•
0.6	•	•	•
2.5	•	•	•
2.5	•	•	•

Durability:

♦ When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 7201 M 1 5 E X M P).

† With M15 perforation

NOTE: 6" panel depth option available as a custom product.

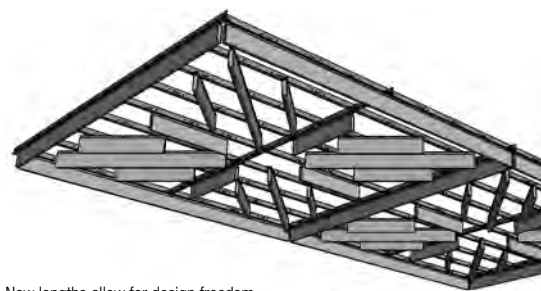
Additional custom options include 12" x 72" and 24" x 72" panels in lengths up to 144".

## ACCESSORIES

Item Number	Description	Pieces/Carton
<b>7204</b> __ ♦♦	MetalWorks™ Blades – Classics™ Attachment Clip (SS – Stainless Steel and KO – Black Oxide)	100
<b>7205</b>	MetalWorks™ Blades – Classics™ Alignment Device	24
<b>8158</b> ___ ♦	MetalWorks™ Blades – Classics™ 1' x 4" Field Cut End Cap	10

♦ When specifying or ordering, include the color suffix with the item number (e.g., 7201 M 1 5 E X M P).

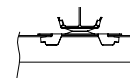
♦♦ When specifying or ordering, include the appropriate 2-letter color suffix, SS – Stainless Steel or KO – Black Oxide, (e.g., 7204 S S).



New lengths allow for design freedom. See other possible design layouts in our MetalWorks™ Blades technical guide.

## SUSPENSION SYSTEMS

15/16"



Prelude® XL® suspension system (Pgs. 458-459)  
(Black) or 360° Painted Grid (Pg. 450)

## PHYSICAL DATA

### Material

Aluminum – thickness 0.032"

### Surface Finish

Factory-applied polyester paint. Available in White, Silver Grey, Gun Metal Grey, and Effects™ Wood Looks powder-coated, post-production finishes. Custom colors also available. Contact TechLine for custom color matching requests at 1 877 276-7876.

### Fire Performance

Tested per ASTM E84. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics.

Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

### Acoustical Options

Perforated panels are supplied with a black fiberglass fleece acoustic infill bag to absorb sound (varies by Blades™ panel length).

### Design Support

Project management assistance is available by calling TechLine customer support at 1 877 276-7876.

### Design Considerations

When installed, panels hang 4-7/8" below grid face. Panels can be supported by intermediate duty main beams or cross tees, with 2 attachment clips per panel. See MetalWorks™ Blades – Classics™ brochure online for additional design lay-outs.

MetalWorks Blades – Classics can be cut in the field only when using the Field Cut End Cap. See installation instructions for details.

### Seismic Restraint

MetalWorks™ Blades – Classics™ are approved for application in all seismic areas when installed per the seismic guidelines in the Armstrong Ceilings installation instructions.

### Warranty

Details at armstrongceilings.com

### Weight; Square Feet/Carton

1.43 lbs/LF

TechLine / 1 877 276-7876  
armstrongceilings.com/blades  
(search: metalworks blades classics)

BPCS-5092-119

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of The International Living Future Institute  
Revit® is a registered trademark of Autodesk, Inc. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America

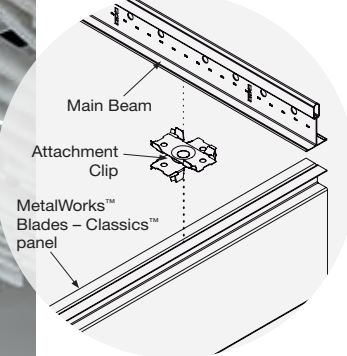
**Armstrong**  
CEILING & WALL SOLUTIONS

# METALWORKS™ Blades – Classics™

Linear Panels with Acoustical Options  
smooth texture



CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



plus capabilities  
to do more

[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

Durable metal vertical panels in upscale linear designs are available in acoustical or non-acoustical options.

## KEY SELECTION ATTRIBUTES

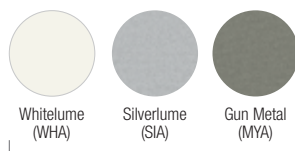
- Now available in 23" and 47" lengths for creative design layouts
- Blades™ panels come with two factory-installed end caps, one end cap, or no end caps
  - Join several Blades™ panels together to create a longer run
  - Use double end capped panel for access areas
  - Introducing the Field Cut End Cap for maximum jobsite flexibility (sold separately)
- Six Wood Looks Effects™ finishes
- Create acoustical or non-acoustical upscale linear designs
- Blades panel spacing is variable to accommodate a variety of design and acoustical needs
- MetalWorks™ Blades – Classics™ panels are part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- Fast, easy installation with standard Prelude® XL® 15/16" or 360° painted suspension systems



Field Cut End Cap shown inserted and uninstalled.

## COLORS

Due to printing limitations, shade may vary from actual product.

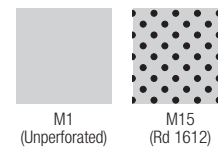


Part of the Sustain® portfolio, meeting sustainability compliance standards



## PERFORATION OPTIONS

(1:2 scale shown)



Additional sizes and colors may be available. For more information, visit our web site at [armstrongceilings.com/metalworks](http://armstrongceilings.com/metalworks) or contact Architectural Specialties TechLine at 1 877 276-7876 for custom panel lengths.

# METALWORKS™ Blades – Classics™

Linear Panels with Acoustical Options  
smooth texture

Declare™  
Living Building  
Challenge Compliant

SUSTAIN™  
High Performance  
Sustainable  
Ceiling Systems  
Unperforated (M1)



UP TO 80% RECYCLED CONTENT

For LEED contribution contact TechLine

LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

## VISUAL SELECTION

Edge Profile	Item No. ♦	Description/Dimensions L x W x D (Inches) Custom Sizes Available	
<b>METALWORKS™ Blades – Classics™</b>			
	<b>8157</b>	Vertical panel with caps on both ends 94-1/2 x 4 x 1"	
	<b>8156</b>	Vertical panel with caps on both ends 46-1/2 x 4 x 1"	
	<b>8155</b>	Vertical panel with caps on both ends 22-1/2 x 4 x 1"	
	<b>7202</b>	Vertical panel with cap on one end 96 x 4 x 1"	
	<b>7203</b>	Vertical panel with no end caps 96 x 4 x 1"	

## PERFORMANCE

Dots represent high level of performance.

Sabins/Panel	Wash	Scrub	Soil
2.5	•	•	•
1.2	•	•	•
0.6	•	•	•
2.5	•	•	•
2.5	•	•	•

Durability:

♦ When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 7201 M 1 5 E X M P).

† With M15 perforation

NOTE: 6" panel depth option available as a custom product.

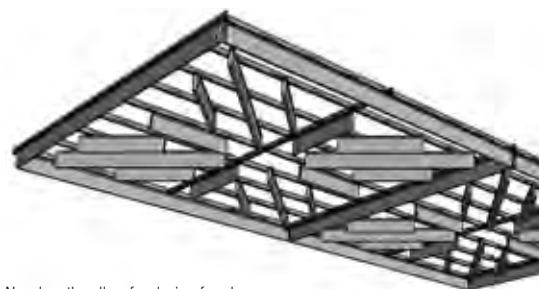
Additional custom options include 12" x 72" and 24" x 72" panels in lengths up to 144".

## ACCESSORIES

Item Number	Description	Pieces/Carton
<b>7204</b> __ ♦♦	MetalWorks™ Blades – Classics™ Attachment Clip (SS – Stainless Steel and KO – Black Oxide)	100
<b>7205</b>	MetalWorks™ Blades – Classics™ Alignment Device	24
<b>8158</b> ___ ♦	MetalWorks™ Blades – Classics™ 1' x 4" Field Cut End Cap	10

♦ When specifying or ordering, include the color suffix with the item number (e.g., 7201 M 1 5 E X M P).

♦♦ When specifying or ordering, include the appropriate 2-letter color suffix, SS – Stainless Steel or KO – Black Oxide, (e.g., 7204 S S).



New lengths allow for design freedom. See other possible design layouts in our MetalWorks™ Blades technical guide.

## SUSPENSION SYSTEMS

15/16"



Prelude® XL® suspension system (Pgs. 458-459)  
(Black) or 360° Painted Grid (Pg. 450)

## PHYSICAL DATA

### Material

Aluminum – thickness 0.032"

### Surface Finish

Factory-applied polyester paint. Available in White, Silver Grey, Gun Metal Grey, and Effects™ Wood Looks powder-coated, post-production finishes. Custom colors also available. Contact TechLine for custom color matching requests at 1 877 276-7876.

### Fire Performance

Tested per ASTM E84. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

### Acoustical Options

Perforated panels are supplied with a black fiberglass fleece acoustic infill bag to absorb sound (varies by Blades™ panel length).

### Design Support

Project management assistance is available by calling TechLine customer support at 1 877 276-7876.

### Design Considerations

When installed, panels hang 4-7/8" below grid face. Panels can be supported by intermediate duty main beams or cross tees, with 2 attachment clips per panel. See MetalWorks™ Blades – Classics™ brochure online for additional design lay-outs.

MetalWorks Blades – Classics can be cut in the field only when using the Field Cut End Cap. See installation instructions for details.

### Seismic Restraint

MetalWorks™ Blades – Classics™ are approved for application in all seismic areas when installed per the seismic guidelines in the Armstrong Ceilings installation instructions.

### Warranty

Details at armstrongceilings.com

### Weight; Square Feet/Carton

1.43 lbs/LF

TechLine / 1 877 276-7876  
armstrongceilings.com/blades  
(search: metalworks blades classics)

BPCS-5092-718

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of The International Living Future Institute  
Revit® is a registered trademark of Autodesk, Inc. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

# SOUNDSCAPES® Blades™

Linear Acoustical Panels

fine texture



Custom SoundScapes® Blades™, Rectangular in varying lengths and depths



Wall application

plus capabilities  
do more

armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

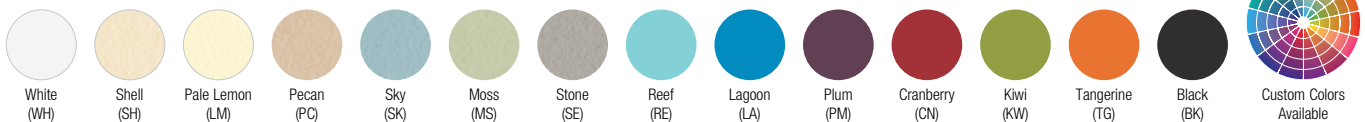
Acoustical vertical panels reduce reverberation time in your space, now with three ways to install on ceilings and walls.

## KEY SELECTION ATTRIBUTES



- Three installation options for maximum ceiling and wall design flexibility
  - From standard suspension system
  - From individual cable suspension
  - Direct-attach method using Axiom® Wall Molding
- Excellent acoustical absorption – 1.38 Sabins/SF<sup>2</sup>
- Twenty vertical panel sizes and shapes
- Linear, upscale visual
- Seismic-tested
- Integrated hardware
- Custom panel options available
- Add scrim to top edge as a premium option

**COLORS** Due to printing limitations, shade may vary from actual product.



For premium and custom capabilities, contact TechLine at 877 276-7876. Coordinating Calla® and Lyra® DESIGNFlex™ colors available!

# SOUNDSCAPES® Blades™

Linear Acoustical Panels  
fine texture

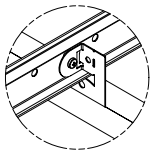
71% RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

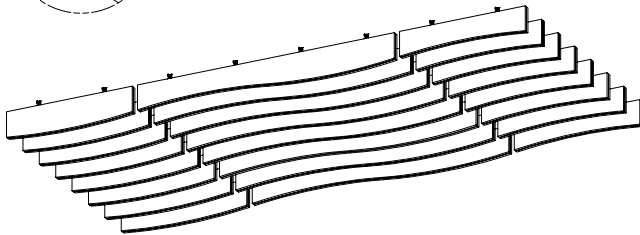
LEED®	energy management	construction waste to right	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-----------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

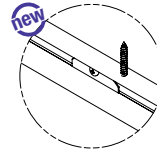
## LAYOUT OPTIONS



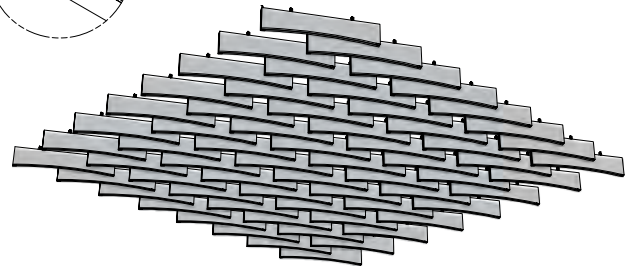
Install to Standard 15/16" Suspension System



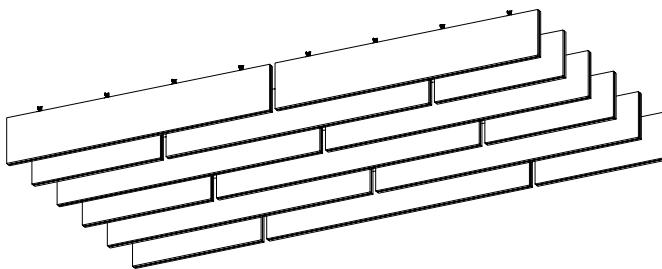
Vertical Panel 8' Wavelength Concave 7240 – 7.5 x 46 x 2"  
Vertical Panel 8' Wavelength Convex 7241 – 10.5 x 46 x 2"  
Vertical Panel 8' Wavelength Wave 7244 – 10.5 x 94 x 2"



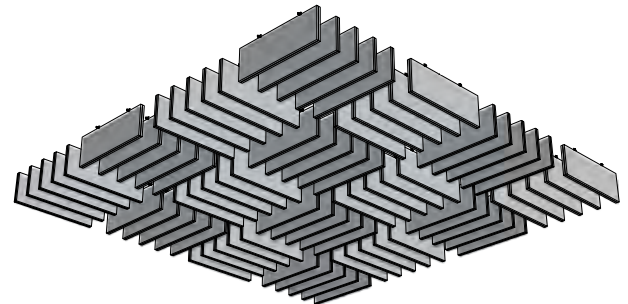
Direct-Attach Method using Axiom® Wall Molding



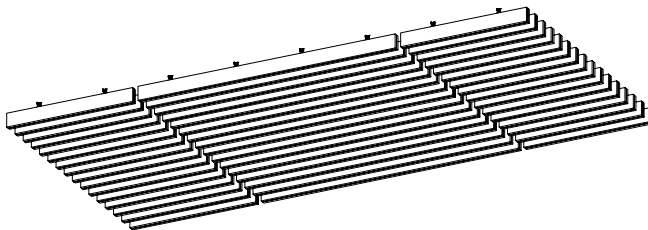
Vertical Panel 8' Wavelength Concave 7240 – 7.5 x 46 x 2"



Vertical Panel Rectangular 7192 – 16 x 46 x 2"  
Vertical Panel Rectangular 7193 – 16 x 94 x 2"



Vertical Panel Rectangular 7192 – 16 x 46 x 2"

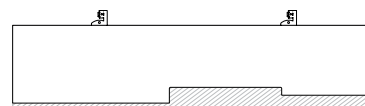


Vertical Panel Rectangular 7190 – 5 x 46 x 2"  
Vertical Panel Rectangular 7191 – 5 x 94 x 2"



Vertical Panel 4' Wavelength Wave 7247 – 22 x 46 x 2"  
Vertical Panel 4' Wavelength Wave 7246 – 10 x 46 x 2"

## CUSTOM PANEL DESIGN EXAMPLES



.125 Min Radius for all 90° Inside Corners

1.0 Min Radius anywhere other than 90° Inside Corners



EXPOSED STRUCTURE – BLADES™ & BAFFLES

# SOUNDSCAPES® Blades™

Linear Acoustical Panels  
fine texture

**71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

<b>LEED®</b>	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
--------------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

## VISUAL SELECTION Shown in elevation view

## PERFORMANCE Dots represent high level of performance.

Item No. ♦	Description	Dimensions (Inches)	Sabins/Panel	Light Reflect (White Only)	Fire Rating	Mold & Mildew Protection	Sag Resist	Wash	Impact	Scratch	Soil
<b>7190</b> _ _	Vertical panel Rectangular	5 x 46 x 2" 	2.2	0.90	Class A	•	•	•	•	•	•
<b>7191</b> _ _	Vertical panel Rectangular	5 x 94 x 2" 	4.5	0.90	Class A	•	•	•	•	•	•
<b>3920</b> _ _	Vertical panel	10 x 46 x 2" 	4.4	0.90	Class A	•	•	•	•	•	•
<b>3921</b> _ _	Vertical panel	10 x 94 x 2" 	9.0	0.90	Class A	•	•	•	•	•	•
<b>7192</b> _ _	Vertical panel Rectangular	16 x 46 x 2" 	7.0	0.90	Class A	•	•	•	•	•	•
<b>7193</b> _ _	Vertical panel Rectangular	16 x 94 x 2" 	14.4	0.90	Class A	•	•	•	•	•	•
<b>3922</b> _ _	Vertical panel	22 x 46 x 2" 	9.7	0.90	Class A	•	•	•	•	•	•

NOTE: Scrimmed top edges offered as "Premium." EXAMPLE: BPAS3920S6WH, where "S6" = scrimmed all sides.  
♦ Add 2-letter color suffix to end of item number (e.g., 3920 W H = White)



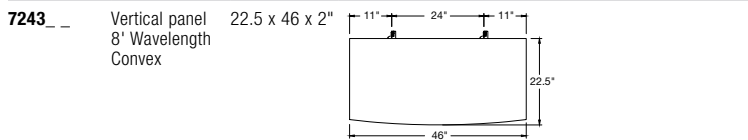
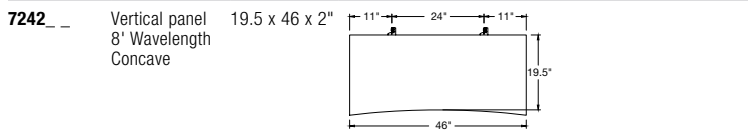
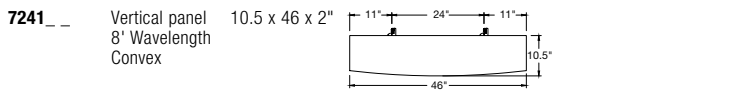
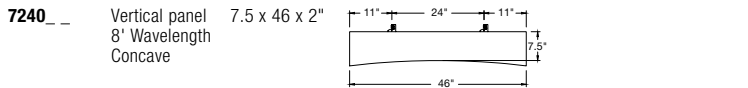
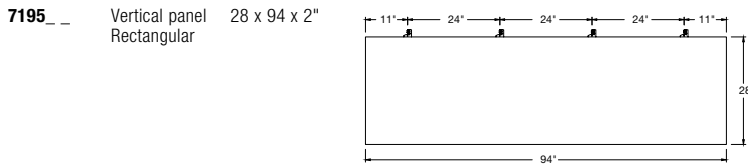
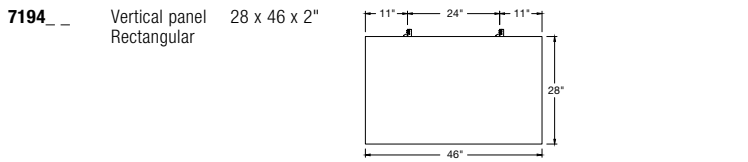
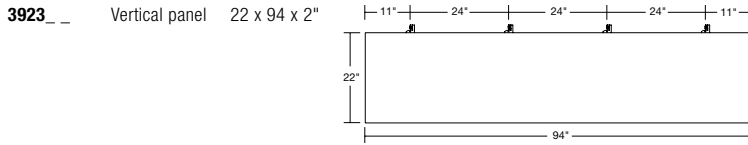
# SOUNDSCAPES® Blades™

Linear Acoustical Panels  
fine texture

**VISUAL SELECTION** Shown in elevation view

Item No. ♦	Description	Dimensions (Inches)
------------	-------------	---------------------

## SOUNDSCAPES® Blades™ Vertical Panel Wave



NOTE: Scrimmed top edges offered as "Premium." EXAMPLE: BPAS3920S6WH, where "S6" = scrimmed all sides.  
♦ Add 2-letter color suffix to end of item number (e.g., 3920 W H = White)

**71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

<b>LEED</b>	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	bio-based materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	---------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

**PERFORMANCE** Dots represent high level of performance.

Sabins/ Panel	Light Reflect (White Only)	Fire Rating	Mold & Mildew Protection	Sag Resist Humi-Guard+	Wash	Impact	Scratch	Soil
19.8	0.90	Class A	•	•	•	•	•	•
12.3	0.90	Class A	•	•	•	•	•	•
25.2	0.90	Class A	•	•	•	•	•	•
3.5	0.90	Class A	•	•	•	•	•	•
4.4	0.90	Class A	•	•	•	•	•	•
8.8	0.90	Class A	•	•	•	•	•	•
9.7	0.90	Class A	•	•	•	•	•	•

DEF

EXPOSED STRUCTURE – BLADES™ & Baffles

# SOUNDSCAPES® Blades™

Linear Acoustical Panels  
fine texture

**71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

<b>LEED®</b>	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
--------------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

## VISUAL SELECTION Shown in elevation view

Item No. ♦	Description	Dimensions (Inches)
<b>SOUNDSCAPES® Blades™ Vertical Panel Wave</b>		
7244 _	Vertical panel 8' Wavelength Wave	10.5 x 94 x 2"
7245 _	Vertical panel 8' Wavelength Wave	22.5 x 94 x 2"
7246 _	Vertical panel 4' Wavelength Wave	10 x 46 x 2"
7247 _	Vertical panel 4' Wavelength Wave	22 x 46 x 2"
7248 _	Vertical panel 4' Wavelength Wave	10 x 94 x 2"
7249 _	Vertical panel 4' Wavelength Wave	22 x 94 x 2"

## PERFORMANCE Dots represent high level of performance.

Sabins/Panel	Light Reflect	Fire Rating	Mold & Mildew Protection	Sag Resist	Wash	Impact	Scratch	Soil
	(White Only)	Inherent	Humi-Guard+	Durability				
8.1	0.90 •	Class A	•	•	•	•	•	•
18.9	0.90 •	Class A	•	•	•	•	•	•
4.0	0.90 •	Class A	•	•	•	•	•	•
9.3	0.90 •	Class A	•	•	•	•	•	•
8.1	0.90 •	Class A	•	•	•	•	•	•
18.9	0.90 •	Class A	•	•	•	•	•	•

NOTE: Scrimmed top edges offered as "Premium." EXAMPLE: BPAS3920S6WH, where "S6" = scrimmed all sides.  
♦ Add 2-letter color suffix to end of item number (e.g., 3920 W H = White)

# SOUNDSCAPES® Blades™

Linear Acoustical Panels  
fine texture

**71% RECYCLED CONTENT**

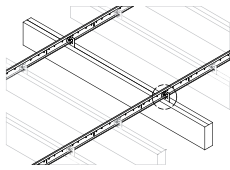
LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

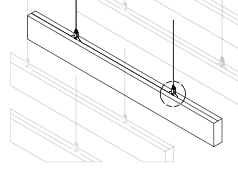
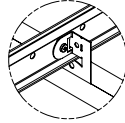
Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

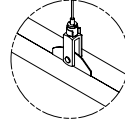
## THREE WAYS TO INSTALL



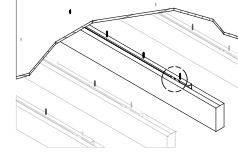
Attachment to Suspension System



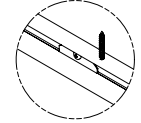
Individual Suspension using Hanging Kit



new

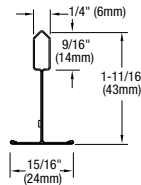


Direct-attach Method using Axiom® Wall Molding



## INSTALLATION OPTIONS

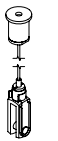
Item No. ♦	Description	Lin Ft/ Carton
<b>PRELUDE® XL®</b>		
7301__	HD Main Beam	240
XL7341__	48" Cross Tee	240
XL8320__	24" Cross Tee	120
7800__	7/8" Wall Angle	360
<b>360° PAINTED GRID</b> Suspension system available in RAL® colors.		
56418	144" HD Main Beam	240
730136__	Black (BL) and White (WH) colors only	240
56421	48" Cross Tee	240
XL734036__	Black (BL) and White (WH) colors only	240
56419	24" Cross Tee	120
XL732036__	Black (BL) and White (WH) colors only	120
7800	7/8" Wall Angle	360
780036__	Black (BL) and White (WH) colors only	360



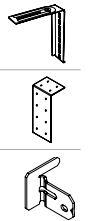
Item No. ♦	Description	Pieces/Carton
<b>DIRECT-ATTACH WITH AXIOM® WALL MOLDING</b>		
AXM34STR3__	Straight Wall Molding – Shadow 10'	(360 Paint Recommended; order by the piece)



Item No. ♦	Description	Pieces/Carton
<b>INDIVIDUAL SUSPENSION USING HANGING KIT</b>		
BP6655	4-Point Hanging Kit	4 per bag



<b>ACCESSORIES</b>		
ARBRKT	Adjustable Hanger Bracket	80
QSUTC	Rigid Attachment Clip	150
STAC	Single Tee Adapter Clip	120



♦ When specifying or ordering items with a color, add the two-letter suffix to the end of the item number (e.g. 7301BL)

## PHYSICAL DATA

### Material

2" thick fiberglass with DuraBrite® scrim on face and sides.

### Surface Finish

DuraBrite scrim with factory-applied paint on face and sides. Standard White has energy-saving, high light-reflective finish (LR 0.90). Top of panel is unfinished with embedded hanging clips.

### Fire Performance

SoundScapes® Blades™ panel material is ASTM E84 Class A: Flame Spread 25 or under and Smoke Developed 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

SoundScapes Blades panels, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Consult a fire protection engineer, NFPA 13, and local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

### Acoustical Performance

1.38 Sabins per square foot or 64% more sound absorption than the same square footage of NRC 0.90 continuous ceilings. Blades™ colored panels have slightly reduced acoustical performance.

### Design Considerations

SoundScapes® Blades™ panels maintain a natural bow that may be noticeable when installed 2" or less apart. Deflection up to 1/8" has been documented in some cases.

Special care in installation and handling must be taken with color panels to avoid surface damage to the paint finish. Custom colors are available.

5" SoundScapes Blades can now be used on walls, but are not recommended for use in high-traffic or high-impact areas. For best results, install above 6' from floor level.

SoundScapes Blades panels can be ordered with scrim on top edge as a premium.

### Seismic Restraint

SoundScapes® Blades™ are approved for all seismic areas when installed per the seismic guidelines in the Armstrong Ceilings installation instructions.

### Recommended Suspension Systems

SoundScapes Blades panels are pre-assembled with metal hanging clips in the top of the panels. See Installation Instructions BPLA-297844 for installation details.

### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

### Panel Weight

7190	– 1.6 lbs per panel
7191	– 3.3 lbs per panel
3920	– 3.2 lbs per panel
3921	– 6.5 lbs per panel
7192	– 5.1 lbs per panel
7193	– 10.4 lbs per panel
3922	– 7.0 lbs per panel
3923	– 14.4 lbs per panel
7194	– 8.9 lbs per panel
7195	– 18.3 lbs per panel
7240	– 2.9 lbs per panel
7241	– 3.5 lbs per panel
7242	– 6.7 lbs per panel
7243	– 7.2 lbs per panel
7244	– 5.9 lbs per panel
7245	– 13.7 lbs per panel
7246	– 3.2 lbs per panel
7247	– 7.0 lbs per panel
7248	– 6.5 lbs per panel
7249	– 14.4 lbs per panel

### Panels/Carton

4

Minimum Order Quantity  
1 carton

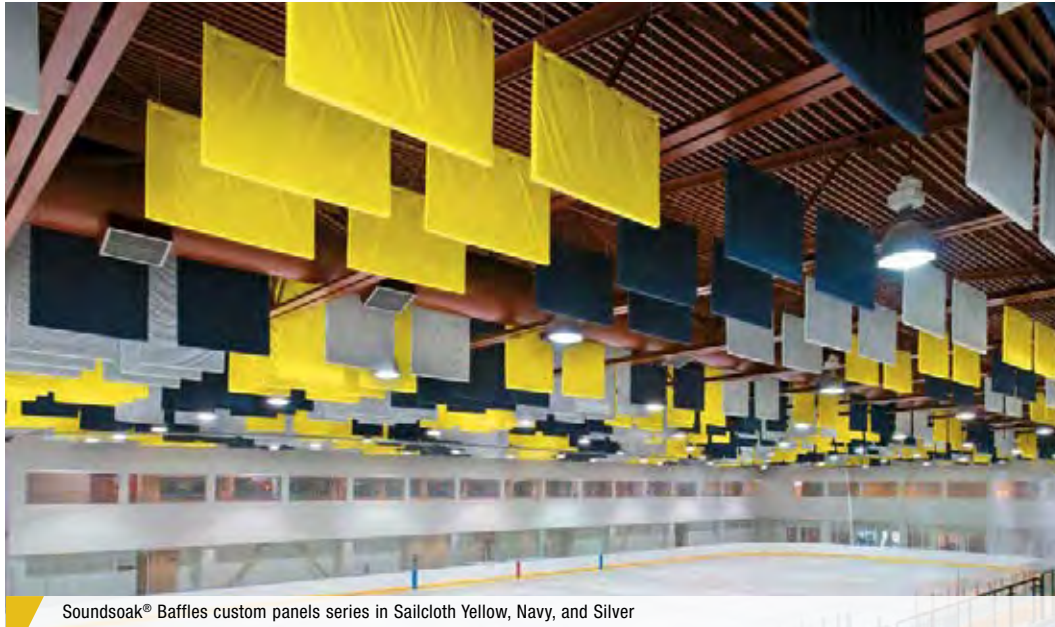
TechLine / 1 877 276 7876  
[armstrongceilings.com/soundscapes](http://armstrongceilings.com/soundscapes)  
(search: soundscapes blades)  
BPCS-5094-1018

LEED® is a registered trademark of the U.S. Green Building Council®  
All other trademarks used herein are the property of  
AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

# SOUNDSOAK® Baffles

## Linear Acoustical Panels



Soundsoak® Baffles custom panels series in Sailcloth Yellow, Navy, and Silver

This easy-to-install acoustical option is available in a variety of standard and custom fabrics.

### KEY SELECTION ATTRIBUTES

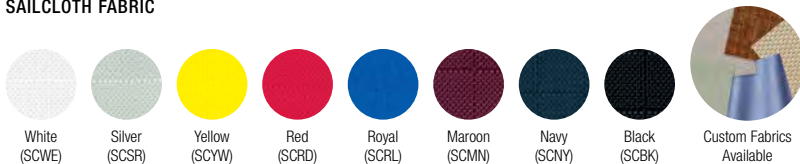
- 100% post-consumer woven fabrics coordinate with Soundsoak® Walls
- On average, one baffle per 40 square feet, or 20% coverage, reduces reverberation time by approximately 50%
- Seismic tested
- Easy to install with sleek, adjustable aircraft cable hanging kit
- Custom sizes and fabrics to meet project needs

### COLOR SELECTION

#### WOVEN FABRIC



#### SAILCLOTH FABRIC



EXPOSED STRUCTURE – BLADES™ & BAFFLES

# SOUNDSOAK® Baffles

## Linear Acoustical Panels

UP TO **50%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED®**

- energy management
- construction waste to right
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

### VISUAL SELECTION

### PERFORMANCE

Item No. ♦	Description	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Mounting	Sabin/ Panel		Fire Rating
<b>SOUNDSOAK Baffles</b>						
6605 __	Fabric-wrapped Square Edge with <b>Fiberglass core</b>	24 x 48 x 2"	Eye Hooks			Composite
6607 _ _ _ _	Sailcloth Nylon Stitched Sealed Edge with <b>Fiberglass core</b>	24 x 48 x 1-1/2"	Grommets	14.5	9.5	Class A

♦ When specifying or ordering, include 2- or 4-letter color suffix.

### ACCESSORIES

Item Number	Description	Dimensions Nominal W x L x H
5670	Baffle Hanging Kit (2 cables, 2 carabiners, and 2 adjusters)	1/16" x 96"

### INSTALLATION OPTIONS



Hanging Kit

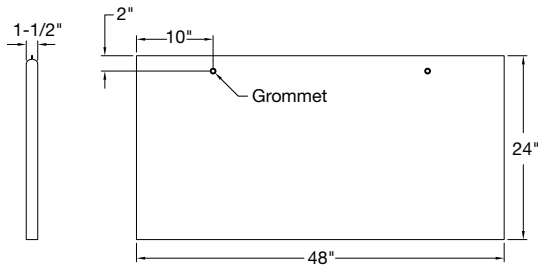


Eye Hook Mounting  
(Fabric Wrapped Baffles)

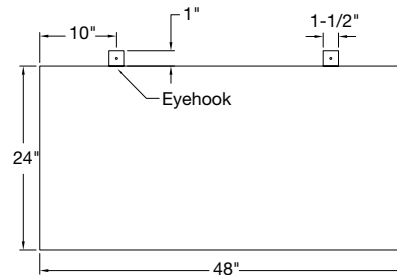


Grommet Mounting  
(Sailcloth Baffles)

#### Sailcloth Baffle



#### Fabric-wrapped Baffle



### PHYSICAL DATA

**Material**  
Rigid fiberglass core

**Surface Finish**  
Nylon or fabric

**Fire Performance**  
6605 - Tested in accordance with ASTM E84 – 25/200; Composite Class A rating per IBC (fabric, substrate, etc.); Tested to CAN/ULC S102 – 25/250  
6607 - Tested in accordance with ASTM E84 – 25/200. Composite Class A rating per IBC (fabric, substrate, etc.)

Soundsoak® Baffles, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and their local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

**Acoustical Performance**  
6605 – 1.8 Sabins per square foot  
6607 – 1.19 Sabins per square foot

**Installation Consideration**  
Cutting baffles is not recommended.

**Seismic Restraint**  
Refer to ASCE 7-10, Section 13.5 Architectural Components, for seismic requirements. Section 13.5, item 2 refers to 13.2.3 Consequential Damage.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight/Square Foot**  
Bulk packaged per order  
6605 – 14 lbs. per Baffle  
6607 – 10 lbs. per Baffle

TechLine / 1 877 276-7876  
[armstrongceilings.com/soundsoak](http://armstrongceilings.com/soundsoak)  
(search: soundsoak baffles)  
BPCS-5095-119

LEED® is a registered trademark of the U.S. Green Building Council  
All other trademarks used herein are the property of AWI Licensing LLC  
and/or its affiliates © 2019 AWI Licensing LLC  
Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

80A

# TECTUM® Blades™ and Baffles

## Custom Vertical Linear Panels

coarse texture



Declare™  
Third Party Verified  
Living Product  
Imperative  
Certified

For LEED contribution visit  
[armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	FSC (for wood)	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	----------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



plus capabilities to do more

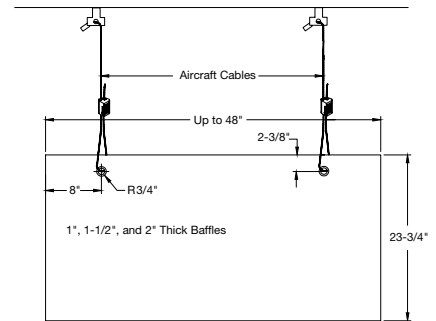
[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

Acoustical vertical panels help control reverberation and add a design element to your interior spaces.

### KEY SELECTION ATTRIBUTES

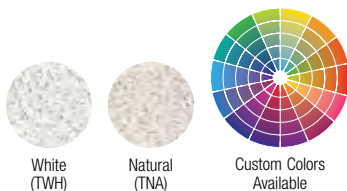
- new** Tectum® panels are Living Product Imperative Certified by the International Living Future Institute – 1" panels in White and Natural only
- Noise Absorption up to 0.60 Sabins/SF
- Tectum Blades are available in 1-1/2" and 2" thicknesses; widths from 23-3/4" to 96"; and heights from 11-3/4" to 23-3/4".  
Blades are installed with available 14-gauge steel channel that is available in lengths from 24" to 108" in 1' increments.
- Tectum Baffles are available in 1", 1-1/2", and 2" thicknesses; widths from 23-3/4" to 47-3/4" and heights from 11-3/4" to 23-3/4".

- Baffles come with pre-drilled holes 24" O.C. for installation with hanger wire or aircraft cable.
- Square edges or radius corners; beveled bottom edges available
- Custom shapes available to meet your project needs
- Tectum Blades and Baffles are inherently directional due to manufacturing constraints. The finished visual on the front and back of the panel will not match exactly. 360 degree factory or field painting is recommended for all installations.



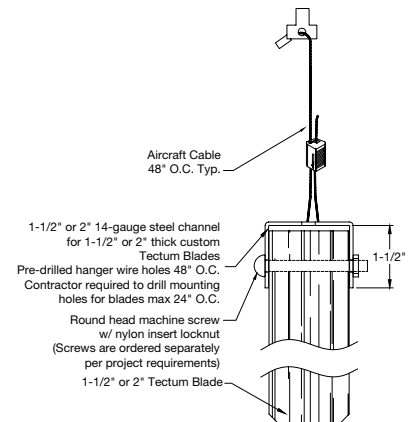
### COLORS

Due to printing limitations, shade may vary from actual product.



### ACOUSTICAL INFORMATION

Product	Panel Thickness	Acoustics		Weight (Sq. Ft)
		Suspended	NRC	
Blades™ & Baffles	1"	0.40 (Sabins/SF)		1.63 lbs/SF
	1-1/2"	0.50 (Sabins/SF)		2.53 lbs/SF
	2"	0.60 (Sabins/SF)		3.33 lbs/SF





EXPOSED STRUCTURE – BLADES™ & BAFFLES

TechLine 877 276-7876  
armstrongcellings.com/tectum

**Armstrong**  
CEILING & WALL SOLUTIONS

81A



# You Can Use Clouds and Canopies to Enhance Design and Acoustical Performance

Acoustical absorption is important to:

- Reduce noise levels and reverberation time
- Enhance speech intelligibility

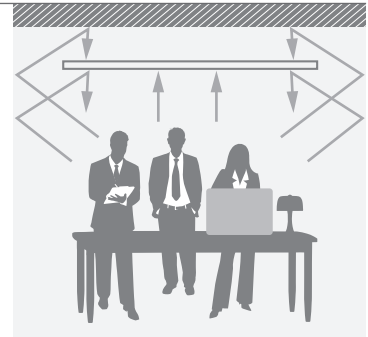
Clouds and canopies can provide sound absorption and are especially effective since they can absorb sound from the front and back of the panels.

Sabin is the term used to measure acoustics for these ceiling forms.

## Sabin

The preferred metric for measuring acoustics for “space absorbers” like clouds and canopies.

The acoustical absorption for a suspended ceiling is calculated by multiplying the exposed surface area by the material NRC, while “space absorbers” are directly measured. Acoustical clouds and canopies can provide greater sound absorption than a continuous ceiling of the same surface area because the sound is absorbed from both the front and back surfaces.

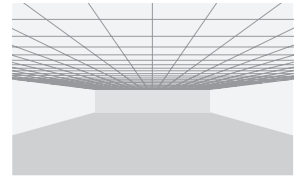
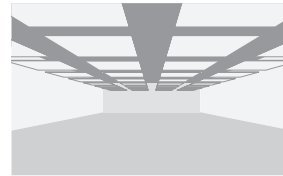
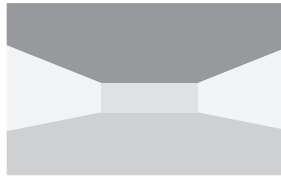


Example:

Exposed Structure

Cloud Installation

Continuous Ceiling



5,000 SF Exposed Structure (50' x 100'), 15' to deck, drywall with windows on two sides, commercial carpet

	No Treatment (0% Coverage)	SoundScapes® Shapes (50% coverage)	Continuous Optima® Ceiling (100% Coverage)
Ceiling	Exposed Structure	156 Shapes: 46" x 46" Squares	Suspended 60" Below Deck
Sabin/SF	0	1.49	0.90
Reverberation Time	3.4 sec	0.9 sec	0.5 sec
RT Improvement	ref	73%	86%
SPL Reduction	ref	-4.5 dB	-6.0 dB

For definitions of acoustical terms, see Pgs. 546-547 in this catalog.





EXPOSED STRUCTURE – CLOUDS & CANOPIES

# CLOUDS CANOPIES

# CLOUDS, CANOPIES, AND ACOUSTICAL PANELS

## At-a-Glance

you inspire™  
solutions center

helping to bring your one-of-a-kind ideas to life

### CLOUDS



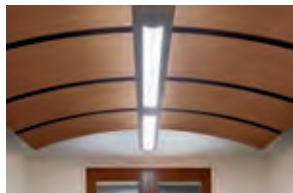
FORMATIONS™ Clouds Pgs. 86-97



INFUSIONS® Shapes Pg. 99



SERPENTINA® Classic Clouds Pgs. 100-101



SERPENTINA® Vault Clouds Pgs. 102-103



SERPENTINA® Waves™ Pgs. 104-107



SOUNDSCAPES® Shapes Clouds Pg. 110-113



TECTUM® Shapes & Clouds Pg. 114



INFUSIONS® & METALWORKS™ Wings  
[armstrongceilings.com/wings](http://armstrongceilings.com/wings)

### CANOPIES



INFUSIONS® Accent Canopies Pg. 98



METALWORKS™ Canopies  
[armstrongceilings.com/metalworks](http://armstrongceilings.com/metalworks)



SOUNDSCAPES® Acoustical Canopies Pgs. 108-109



SOUNDSCAPES® Basics Canopies  
[armstrongceilings.com/soundscapes](http://armstrongceilings.com/soundscapes)



WOODWORKS® Canopies Pg. 116



#### ICON KEY

Icons are used throughout the catalog to help you quickly identify key products with high level of performance.

#### High Acoustics

Sabin measures are noted under physical data for each product.



#### Fire Performance

Performance in Clouds and Canopies is dependent on panel attributes. See product pages for specific panel performance.



#### Seismic

Category D, E & F



#### Light Reflectance

Light reflectance of 0.83 or greater.



#### BioBlock®

Resists the growth of mold and mildew



#### Humidity/Sag Resistance

##### HumiGuard® Plus

Recommended for areas subject to high humidity up to but not including standing water or outdoor applications.



#### High Durability

##### Washability

Offers superior wash resistance without compromising panel finish integrity.



#### Scrubability

Product is scrubable. See specific info on product page.



#### Impact Resistance

Excellent resistance to surface impact.



#### Scratch Resistance

Excellent resistance to surface scratching, scuffing, or chipping as per Hess Rake Test.



#### Soil Resistance

Excellent resistance to dirt and/or grease for lasting value and performance.



#### Color Availability

Available in color.



#### Recycle Program

Product is recyclable through the Armstrong Recycling Program.



# CLOUDS, CANOPIES, AND ACOUSTICAL PANELS

## Colors, Finishes, and Patterns

**FORMATIONS™ Clouds** Colors, finishes, and patterns listed may not apply to each individual product. Before specifying, consult product details at [armstrongceilings.com/canopiesandclouds](http://armstrongceilings.com/canopiesandclouds)

### METALWORKS™ Mesh Lay-in Panels (additional options on product pages 188-191)

#### Woven Wire



Linear Weave Square Weave Diamond Weave

#### Welded Wire



1Cell

#### Expanded Metal



Lattice

### WOODWORKS® Grille and Open Cell Panels (additional options on pages 238-243, 250-251)



Grille Maple (GMP) Grille Light Cherry (GLC) Grille Dark Cherry (GDC) Grille Walnut (GWN) Custom Finishes Available

### METALWORKS Square Tegular and Vector® Panels (additional options on pages 164-165)



White (WH) Silver Grey (SG) Gun Metal Grey (MY) Effects™ Maple (FXMP) Effects™ Cherry (FXCH) Effects™ Dark Cherry (FXDC) Effects™ Walnut (FXWN) Custom Colors Available

### CALLA® (Pgs. 276-281)

### LYRA® (Pgs. 330-337)

### OPTIMA® (Pgs. 334-355)

### ULTIMA® (Pgs. 336-385)

### CORTEGA® (Pgs. 300-301)

### DUNE™ (Pgs. 306-309)

### FINE FISSURED™ (Pgs. 312-319)



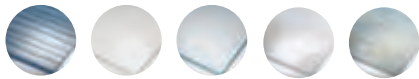
White (WH)

### INFUSIONS® Accent Canopies and Shapes (additional options on product pages 98-99)

#### Infusions® Canopies – Patterns



Spun Copper (TSC) Crushed Copper (TCC) Chalk Folio (TCF) White Circlets (TWC) Silver Orbit (TSR)



Indigo Surf (TNS) Natural Linen (TNL) Blue Linen (TBL) Clear Arbor (TCA) Blue Arbor (TBA)

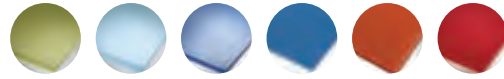


Red Arbor (TRA) Crystalline Focus (TCR) Crystalline Silverado (TSV) Crystalline Sky (TSY)

#### Infusions® Canopies – Solids

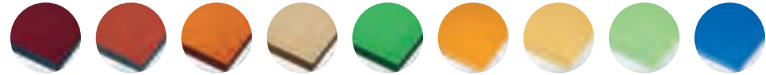


Cultured Pearl (TCP) Inspiration Ice (TNC) Calm Water (TCW) Natural Faith (TNF) Loyalty Latte (TLL) Caribbean Renewal (TAR)

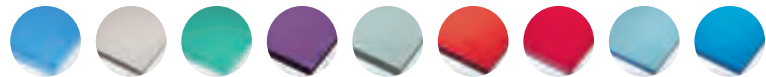


Sage Happiness (TSH) Peace Blue (TPB) Sheer Iris (TSI) Blueberry Bliss (TBB) Sedona Spirit (TSS) Red Fire (TRF)

#### Infusions® Shapes



Romantic Ruby (TOR) Modern Mandarin (TMM) Playful Peach (TPP) Amiable Almond (TAA) Gleeful Green (TGG) Proud Pumpkin (TOP) Bashful Beige (TAB) Mellow Moss (TEM) Artistic Azure (TAZ)



Majestic Marine (TJM) Sensitive Shadow (TVS) Sincere Seafoam (TCM) Versatile Violet (TVV) Grateful Glass (TRG) Cheerful Cherry (THH) Joyful Jelly (TJJ) Refined Reef (TRR) Refined Lagoon (TRL)

### SERPENTINA® Classics, Vault, and SERPENTINA® Waves™ Clouds (additional options on product pages 100-107)

#### Metal Infills



White (WH) Cream (CR) Haze (HA) Camel (CM) Platinum (PL) Tech Black (BL) Silver Grey (SG) Silver Satin (SA) Gun Metal Grey (MY) Champagne Gold (CG) Wolf (WK) Vanilla (VA) Slate (ST) Custom Colors Available

### SOUNDSCAPES® Canopies and Clouds (additional options on product pages 108-113)



White (WH) Shell (SH) Pale Lemon (LM) Pecan (PC) Sky (SK) Moss (MS) Stone (SE) Reef (RE) Lagoon (LA) Plum (PM) Cranberry (CN) Kiwi (KW) Tangerine (TG) Black (BK) Custom Colors Available

### TECTUM® CLOUDS (product page 114)



Tectum Natural (TNA) Tectum White (TWH) Custom Colors Available

### WOODWORKS® Canopies (product page 115)

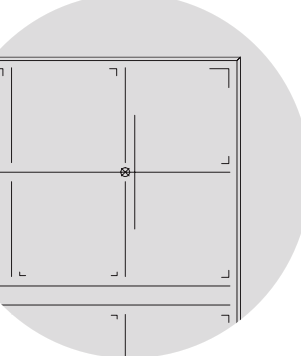
#### Standard



Natural Variations™ Beech (NBE) Natural Variations™ Maple (NMP) Natural Variations™ Light Cherry (NLC) Natural Variations™ Dark Cherry (NDC) Bamboo Native (BAN) Bamboo Patina (BAP) Custom Finishes Available

# FORMATIONS™ Acoustical and Accent Cloud Kits

CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



plus capabilities  
to do more

[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

Formations™ Squares with Ultima® Tegular panels and 2" Axiom® Vector® trim

Easy-to-specify and install cloud system with pre-cut components and wide range of panel options.

## KEY SELECTION ATTRIBUTES





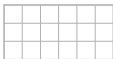

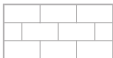

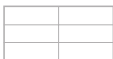





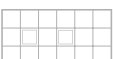
- Ideal for acoustically challenged or open plenum spaces:
  - Reduce acoustical reverberation time in the space
  - Reduce noise levels in the space
  - Increase speech intelligibility
- Clouds appear to float
- Layouts and sizing for full-size panel installation
- Standard components for custom look

## Formations Suspension System and Axiom® Trim Kits

- Axiom trims are made from extruded aluminum, offers better registration, handleability, and finished appearance vs. standard cold-rolled steel
- Axiom® Vector® – maintains a clean 1/4" Vector reveal at the perimeter when used within factory-finished panels
- Kits combine the Formations™ Clouds StrongBack™ mounting system with a sleek, strong aircraft cable system to recess the cable two feet away from the vertical face of the cloud, for a clean visual requiring fewer suspension hangers
- Tested for seismic installations
- Suspension Kits include:
  - Axiom trim cut to length with factory-mitered corners
  - Unique Axiom trim for Formations Support Hanger carrying channel
  - Prelude® XL® suspension system components, cut to length
  - Appropriate amount of Axiom splices and T-Bar connectors
  - Aircraft cable and hardware for attachment to structure

# FORMATIONS™ Acoustical and Accent Cloud Kits

## 1 START BY CHOOSING THE FORMATIONS™ ACCENT AND ACOUSTICAL CLOUD KITS THAT FIT YOUR PROJECT NEEDS

Cloud Type	Description	
	<p><b>FORMATIONS Curves Clouds</b></p> <p>Soften and quiet any space by adding a few curves.</p> <ul style="list-style-type: none"> <li>• 16 suspension system/trim colors</li> <li>• 3 standard trim heights</li> <li>• 16 shapes and sizes</li> </ul>	
	<p><b>FORMATIONS Squares/Rectangles Clouds</b></p> <p>A bold, captivating design option with outstanding sound absorption.</p> <ul style="list-style-type: none"> <li>• 16 suspension system/trim colors</li> <li>• 3 standard trim heights</li> <li>• 15 shapes and sizes</li> </ul>	 
	<p><b>FORMATIONS Staggered Design Clouds</b></p> <p>Create visually interesting clouds the easy way.</p> <ul style="list-style-type: none"> <li>• 16 suspension system/trim colors</li> <li>• 3 standard trim heights</li> <li>• 78 shapes and sizes</li> </ul>	
	<p><b>FORMATIONS Planks Clouds</b></p> <p>Reduce the amount of visible suspension and create a sleek, clean look.</p> <ul style="list-style-type: none"> <li>• 16 suspension system/trim colors</li> <li>• 3 standard trim heights</li> <li>• 30 shapes and sizes</li> </ul>	
	<p><b>FORMATIONS Clouds for Drywall</b></p> <p>Improved floating visual compared to field constructed track and channeled clouds.</p> <ul style="list-style-type: none"> <li>• 3 standard trim heights</li> <li>• 21 shapes and sizes</li> </ul>	
	<p><b>FORMATIONS Clouds with Integrated Lighting</b></p> <p>Distribute safe, low-voltage direct current electrical power through the acoustical ceiling suspension system (grid) for more efficient lighting.</p> <ul style="list-style-type: none"> <li>• 2 standard trim heights</li> <li>• 3 suspension systems</li> <li>• 4 shapes and sizes</li> </ul>	
	<p><b>FORMATIONS Clouds with DC FlexZone™ Suspension System</b></p> <p>Distribute safe, low-voltage direct current (DC) electrical power through the acoustical ceiling suspension system (grid) for more efficient lighting.</p> <ul style="list-style-type: none"> <li>• 2 standard trim heights</li> <li>• 2 suspension systems</li> <li>• 12 shapes and sizes</li> </ul>	



# FORMATIONS™ Acoustical and Accent Cloud Kits

## 2 SELECT A CEILING PANEL THAT WORKS WITH YOUR CLOUD

Panels specified, ordered and shipped separately from Formations™ kits

### ACOUSTICAL PANELS

Due to printing limitations, shade may vary from actual product

#### Curves

Optima®/Ultima® Tegular and Vector® Panels



NOTE: Ultima® and Optima® Vector® panels are the only available as factory-cut curved panels. Other 24" x 24" mineral fiber/fiberglass panels may be used but may require field cutting.

#### Staggered & Planks

Optima Vector Panels



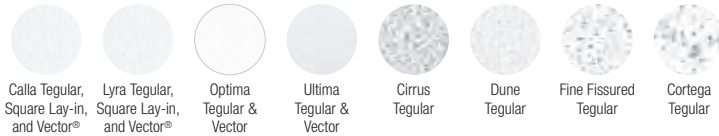
#### Ultima® Health Zone™ Create!™ Lay-in Panels



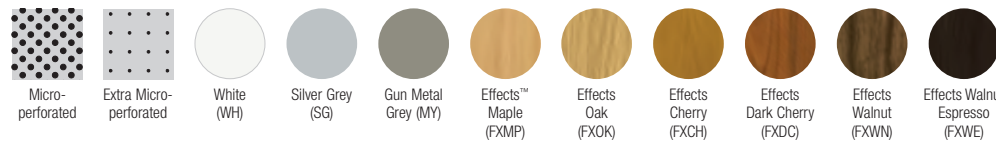
For more information on Create! panels visit [armstrongceilings.com/create](http://armstrongceilings.com/create)

#### Squares

Lyra®/Calla®/Optima/Ultima/Cirrus®/Cortega®/Dune™/Fine Fissured™ Tegular, Vector®, and Square Lay-in Panels



#### MetalWorks™ Square Tegular and Vector Panels



NOTE: Effects colors are only available for extra microperforated panels. Solid wood panels cannot be used for clouds.

### ACCENT PANELS

Due to printing limitations, shade may vary from actual product.

#### Squares

MetalWorks™ Mesh Lay-in Panels (24 available)



#### WoodWorks® Grille Tegular Panels

Open Cell Vector Panels (3 panel designs)



#### Infusions Lay-in Panels

Lay-in Color Choices (38 available)



#### MetalWorks Tin Tegular & Vector Panels

Lay-in Color Choices

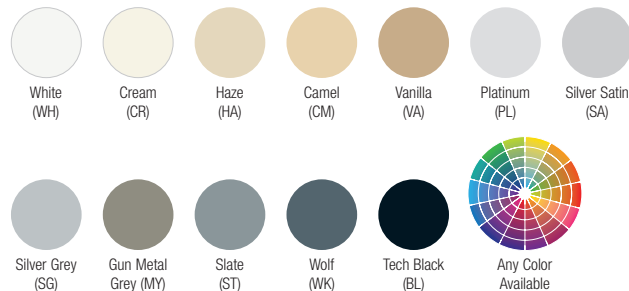


NOTE: For a complete list of panels, visit [armstrongceilings.com/metalworks](http://armstrongceilings.com/metalworks); [armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks); [armstrongceilings.com/infusions](http://armstrongceilings.com/infusions)

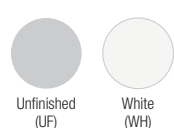
## 3 SELECT YOUR SUSPENSION SYSTEM AND TRIM COLORS

Due to printing limitations, shade may vary from actual product.

### Suspension System / Axiom® Trim Colors

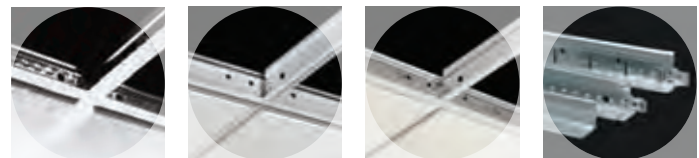


#### Drywall



#### DC FlexZone

### SUSPENSION SYSTEMS



Prelude® 15/16" suspension system included in all kits (except Drywall or DC FlexZone suspension system)

DC FlexZone™ Silhouette® 1/4" Reveal 9/16" suspension system

DC FlexZone Suprafine® 9/16" suspension system

Drywall 1-1/2" suspension system



TechLine 877 276-7876  
[armstrongceilings.com/formations](http://armstrongceilings.com/formations)

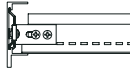


# FORMATIONS™ Acoustical and Accent Cloud Kits

## 4 SELECT YOUR AXIOM® TRIM PROFILE AND HEIGHT

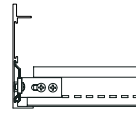
### AXIOM® TRIM TYPES

Axiom® Vector® Trim for Formations™



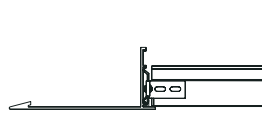
2", 4", and 6" heights

Axiom Vector (Inverted) Trim for Formations (Lay-in and Tegular panels)

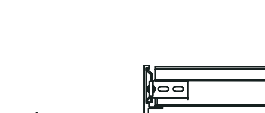


2", 4", and 6" heights

Axiom® Knife Edge® Trim for Formations (Lay-in and Tegular panels)



Axiom Knife Edge Vector Trim for Formations



### AXIOM TRIM PROFILE OPTIONS



Axiom for Formations Vector Trim (available in 2", 4", and 6" heights)



Vector panel with Axiom for Formations Vector Trim (available in 2", 4", and 6" heights)



Tegular panel with inverted Axiom for Formations Vector Trim (available in 2", 4", and 6" heights)



Tegular panel with Axiom for Formations Knife Edge for Vector Trim



Vector panel with Axiom for Formations Knife Edge for Vector Trim

### ENSURE YOUR TRIM IS COMPATIBLE WITH YOUR CEILING PANEL CHOICE.

#### Compatible Ceiling Panels

#### Trim Choices:

Edge Profile	Panel	AXIOM® Vector®	AXIOM® Vector® (Inverted)	AXIOM® Knife Edge®	AXIOM® Knife Edge® Vector®
<b>Formations Curves</b>					
	Lay-in	Available in 2", 4", and 6" heights	Available in 2", 4", and 6" heights		
	OPTIMA® Square Tegular				
	OPTIMA® Vector® (Factory-cut)				
	ULTIMA® Beveled Tegular				
	ULTIMA® Vector (Factory-cut)				
<b>Formations Squares</b>					
	Lay-in				
	CALLA® Square Tegular				
	CALLA® Vector (Factory-cut)				
	LYRA® Square Tegular				
	LYRA® Vector (Factory-cut)				
	OPTIMA® Square Tegular				
	OPTIMA® Vector (Factory-cut)				
	ULTIMA® Beveled Tegular				
	ULTIMA® Vector (Factory-cut)				

#### Compatible Ceiling Panels

#### Trim Choices:

Edge Profile	Panel	AXIOM® Vector®	AXIOM® Vector® (Inverted)	AXIOM® Knife Edge®	AXIOM® Knife Edge® Vector®
<b>Formations Squares</b>					
	CIRRUS®/CORTEGA®/DUNE™/FINE FISSURED™ Angled Tegular	Available in 2", 4", and 6" heights	Available in 2", 4", and 6" heights		
	ULTIMA® Health Zone™ Create!™ Square Lay-in				
	METALWORKS™ Square Tegular				
	METALWORKS™ Vector				
	WOODWORKS® Grille Tegular				
	WOODWORKS® Open Cell Vector				
	INFUSIONS® Lay-in				
<b>Formations Planks &amp; Staggered</b>					
	OPTIMA® Vector				
<b>Formations for Drywall</b>					
	N/A	Axiom Drywall Trim			
<b>Formations with DC FlexZone™ Suspension System</b>					
	OPTIMA® Square Tegular	*			
	ULTIMA® Beveled Tegular	*			

\* 2" trim height not available with DC FlexZone suspension system

# FORMATIONS™ Acoustical and Accent Cloud Kits – Curves

**LEED** Applies to standard kits only

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

## 5 SPECIFY KITS, COLORS, AND PANEL SELECTIONS

### HOW TO SPECIFY

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number, the special factory-cut curved Vector® panel kit number, and any extra cartons of the infill panels you may need.

Standard circle and rounded square clouds feature 15/16" Prelude® suspension system and your choice of 2", 4", or 6" high Axiom® Vector® trim.

EXAMPLE:

**C4VES 0606C** \_ \_

4" High Axiom® Vector® Trim    6' x 6' Cloud    Color Suffix♦

Also order curved Optima® Vector® Panel Kit: 3970

Custom options available that include a wide range of Axiom trim and suspension system options.

♦ If specifying a color other than White, remember to add the color suffix at the end of the Suspension Kit item number.

### VISUAL SELECTION

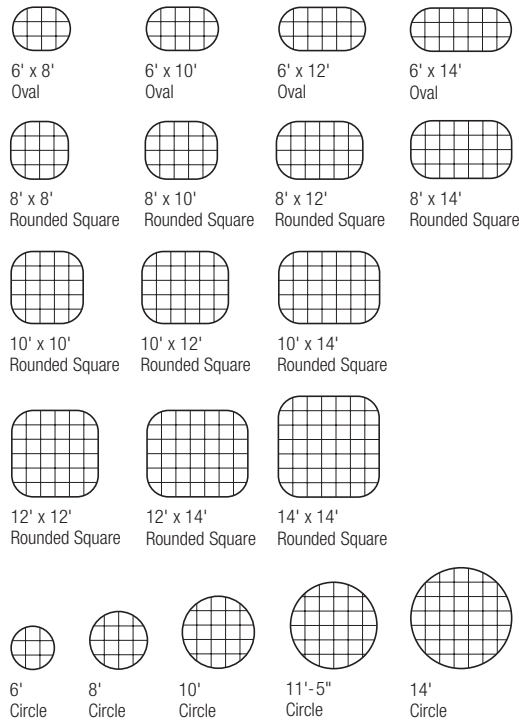
Cloud Size (Feet)		Suspension Kit Item No. ♦ (Axiom Trim & Suspension System)
<b>Curves</b> 15/16" Prelude		
6'	Circle	<b>C_VES0606C</b> _ _
6' x 8'	Oval	<b>C_VES0608</b> _ _
6' x 10'	Oval	<b>C_VES0610</b> _ _
6' x 12'	Oval	<b>C_VES0612</b> _ _
6' x 14'	Oval	<b>C_VES0614</b> _ _
8'	Circle	<b>C_VES0808C</b> _ _
8' x 8'	Rounded Square	<b>C_VES0808</b> _ _
8' x 10'	Rounded Square	<b>C_VES0810</b> _ _
8' x 12'	Rounded Square	<b>C_VES0812</b> _ _
8' x 14'	Rounded Square	<b>C_VES0814</b> _ _
10'	Circle	<b>C_VES1010C</b> _ _
10' x 10'	Rounded Square	<b>C_VES1010</b> _ _
10' x 12'	Rounded Square	<b>C_VES1012</b> _ _
10' x 14'	Rounded Square	<b>C_VES1014</b> _ _
11'-5"	Circle	<b>C_VES1212C</b> _ _
12' x 12'	Rounded Square	<b>C_VES1212</b> _ _
12' x 14'	Rounded Square	<b>C_VES1214</b> _ _
14'	Circle	<b>C_VES1414C</b> _ _
14' x 14'	Rounded Square	<b>C_VES1414</b> _ _

### PANEL SELECTION

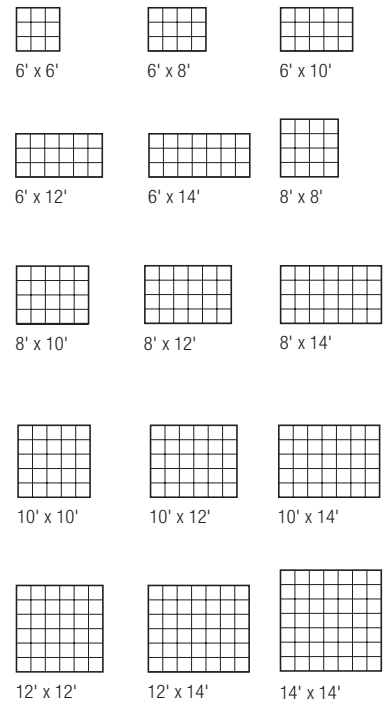
Kit No.	Cartons Required	Required Extra Item 3900 24" x 24" (Ctns)	<b>Optima® Vector® Factory-cut Curved Panels</b>			<b>Ultima® Vector® Factory-cut Curved Panels</b>		
			Kit No.	Cartons Required	Required Extra Item 1920 24" x 24" (Ctns)	Kit No.	Cartons Required	Required Extra Item 1920 24" x 24" (Ctns)
3970	1	0	1970	1	0	1970	1	0
3971	1	1	1971	1	1	1971	1	1
3971	1	1	1971	1	1	1971	1	1
3971	1	1	1971	1	1	1971	1	1
3971	1	1	1971	1	1	1971	1	1
3973	1	1	1973	1	1	1973	1	1
3972	1	1	1972	1	1	1972	1	1
3972	1	1	1972	1	1	1972	1	1
3972	1	1	1972	1	1	1972	1	1
3972	1	2	1972	1	2	1972	1	2
3974	2	1	1974	2	1	1974	2	1
3972	1	2	1972	1	2	1972	1	2
3972	1	2	1972	1	2	1972	1	2
3972	1	2	1972	1	2	1972	1	2
3975	2	2	1975	2	2	1975	2	2
3972	1	2	1972	1	2	1972	1	2
3972	1	3	1972	1	3	1972	1	3
3976	2	3	1976	2	3	1976	2	3
3972	1	4	1972	1	4	1972	1	4

### CLOUD SHAPE AND SIZE SELECTION

#### Curves



#### Squares (see chart Pg. 91)





# FORMATIONS™ Acoustical and Accent Cloud Kits – Squares & Rectangles

**76%<sup>ULTIMA</sup> 71%<sup>OPTIMA</sup> RECYCLED CONTENT**

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED** Applies to standard kits only

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

## 5 (continued) SPECIFY KITS, COLORS, AND PANEL SELECTIONS

### HOW TO SPECIFY

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number and the panel item number.

Standard square and rectangle clouds feature 15/16" Prelude® suspension system and your choice of 2", 4", or 6" high Axiom® Vector® Trim, Axiom® Knife Edge® Tegular or Vector trim.

EXAMPLE:

**C4VES 0606C** \_ \_

4" High Axiom Vector Trim | 6" x 6" Cloud | Color Suffix

Also order square Optima® Vector Panel Kit: 3900 (24" x 24" panels – 1 carton).

Custom options available that include a wide range of Axiom trim and suspension system options.

◆ If specifying a color other than White, remember to add the color suffix at the end of the Suspension Kit item number.

### VISUAL SELECTION

Cloud Size	Axiom Profile	Suspension Kit Item No. ◆ (Axiom Trim & Suspension System)
<b>Squares/Rectangles</b> 15/16" Prelude		
6' x 6'	Vector	C _ VEA0606 _ _
	Knife Edge Tegular	CKETA0606 _ _
	Knife Edge Vector	CKEVA0606 _ _
6' x 8'	Vector	C _ VEA0608 _ _
	Knife Edge Tegular	CKETA0608 _ _
	Knife Edge Vector	CKEVA0608 _ _
6' x 10'	Vector	C _ VEA0610 _ _
	Knife Edge Tegular	CKETA0610 _ _
	Knife Edge Vector	CKEVA0610 _ _
6' x 12'	Vector	C _ VEA0612 _ _
	Knife Edge Tegular	CKETA0612 _ _
	Knife Edge Vector	CKEVA0612 _ _
6' x 14'	Vector	C _ VEA0614 _ _
	Knife Edge Tegular	CKETA0614 _ _
	Knife Edge Vector	CKEVA0614 _ _
8' x 8'	Vector	C _ VEA0808 _ _
	Knife Edge Tegular	CKETA0808 _ _
	Knife Edge Vector	CKEVA0808 _ _
8' x 10'	Vector	C _ VEA0810 _ _
	Knife Edge Tegular	CKETA0810 _ _
	Knife Edge Vector	CKEVA0810 _ _
8' x 12'	Vector	C _ VEA0812 _ _
	Knife Edge Tegular	CKETA0812 _ _
	Knife Edge Vector	CKEVA0812 _ _
8' x 14'	Vector	C _ VEA0814 _ _
	Knife Edge Tegular	CKETA0814 _ _
	Knife Edge Vector	CKEVA0814 _ _
10' x 10'	Vector	C _ VEA1010 _ _
	Knife Edge Tegular	CKETA1010 _ _
	Knife Edge Vector	CKEVA1010 _ _
10' x 12'	Vector	C _ VEA1012 _ _
	Knife Edge Tegular	CKETA1012 _ _
	Knife Edge Vector	CKEVA1012 _ _
10' x 14'	Vector	C _ VEA1014 _ _
	Knife Edge Tegular	CKETA1014 _ _
	Knife Edge Vector	CKEVA1014 _ _
12' x 12'	Vector	C _ VEA1212 _ _
	Knife Edge Tegular	CKETA1212 _ _
	Knife Edge Vector	CKEVA1212 _ _
12' x 14'	Vector	C _ VEA1214 _ _
	Knife Edge Tegular	CKETA1214 _ _
	Knife Edge Vector	CKEVA1214 _ _
14' x 14'	Vector	C _ VEA1414 _ _
	Knife Edge Tegular	CKETA1414 _ _
	Knife Edge Vector	CKEVA1414 _ _

\*\*These items use Axiom for Formations Vector Trim (inverted).

### PANEL SELECTION

Optima® Vector® Panels	Ultima® Vector® Panels	Optima Tegular Panels	Ultima® Tegular Panels
Item 3900 (Ctns)	Item 1920 (Ctns)	Items 3250, 3354, 3253 (Ctns)	Item 1911 (Ctns)
1	1	1**	1**
–	–	1	1
1	1	–	–
1	1	1**	1**
–	–	1	1
1	1	–	–
2	2	1**	2**
–	–	1	2
2	2	–	–
2	2	1**	2**
–	–	1	2
2	2	–	–
2	2	1**	2**
–	–	1	2
2	2	–	–
2	2	1**	2**
–	–	1	2
2	2	–	–
2	2	1**	2**
–	–	1	2
2	2	–	–
2	2	1**	3**
–	–	1	3
2	2	–	–
2	3	2**	3**
–	–	2	3
2	3	–	–
3	3	2**	3**
–	–	2	3
3	3	–	–
3	3	2**	3**
–	–	2	3
3	3	–	–
4	4	2**	4**
–	–	2	4
4	4	–	–
5	5	3**	5**
–	–	3	5
5	5	–	–

### MORE PANEL OPTIONS

Place these panel orders with Armstrong Ceilings Customer Service – 1 877 276 7876

Panel options featured on pg. 59

- Calla® / Calla® Vector®
- Cirrus®
- Cortega®
- Dune™
- Fine Fissured™
- Infusions®
- Lyra® / Lyra® Vector®
- Ultima® Health Zone™ Create!™
- MetalWorks™ Tegular
- MetalWorks™ Vector®
- MetalWorks™ Tin
- MetalWorks™ Mesh
- WoodWorks® Grille Tegular
- WoodWorks® Open Cell

# FORMATIONS™ Acoustical and Accent Cloud Kits – Staggered

<b>LEED</b> Applies to standard kits only	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
--	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

## 5 (continued) SPECIFY KITS, COLORS, AND PANEL SELECTIONS

### HOW TO SPECIFY

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number and the panel item numbers.

Standard staggered clouds feature 15/16" Prelude® suspension system and your choice of 2", 4", or 6" high Axiom® Vector® trim.

EXAMPLE:

**0606 V2A 1222V** \_ \_

6' x 6' 2" High 1' x 2' / Color  
Cloud Axiom® 2' x 2' Suffix◆  
Vector® Optima®  
Trim Vector®  
Panels

Also order staggered Optima® Vector Panel Kits: 3903 (12" x 24" panels – 1 carton) and 3900 (24" x 24" panels – 1 carton).

◆ If specifying a color other than White, remember to add the color suffix at the end of the Suspension Kit item number.

Custom options available that include a wide range of Axiom® trim and suspension systems.

### VISUAL SELECTION

Cloud Size (Feet)      Suspension Kit Item No. ◆  
(Axiom Trim & Suspension System)

#### Staggered

Cloud Size (Feet)	Suspension Kit Item No. ◆
15/16" Prelude	
6' x 6'	0606V _ A _ _ _ _ V _ _
6' x 8'	0608V _ A _ _ _ _ V _ _
6' x 10'	0610V _ A _ _ _ _ V _ _
6' x 12'	0612V _ A _ _ _ _ V _ _
6' x 14'	0614V _ A _ _ _ _ V _ _
6' x 16'	0616V _ A _ _ _ _ V _ _
8' x 6'	0806V _ A _ _ _ _ V _ _
8' x 8'	0808V _ A _ _ _ _ V _ _
8' x 10'	0810V _ A _ _ _ _ V _ _
8' x 12'	0812V _ A _ _ _ _ V _ _
8' x 14'	0814V _ A _ _ _ _ V _ _
8' x 16'	0816V _ A _ _ _ _ V _ _
10' x 6'	1006V _ A _ _ _ _ V _ _
10' x 8'	1008V _ A _ _ _ _ V _ _
10' x 10'	1010V _ A _ _ _ _ V _ _
10' x 12'	1012V _ A _ _ _ _ V _ _
10' x 14'	1014V _ A _ _ _ _ V _ _
10' x 16'	1016V _ A _ _ _ _ V _ _
12' x 6'	1206V _ A _ _ _ _ V _ _
12' x 8'	1208V _ A _ _ _ _ V _ _
12' x 10'	1210V _ A _ _ _ _ V _ _
12' x 12'	1212V _ A _ _ _ _ V _ _
12' x 14'	1214V _ A _ _ _ _ V _ _
12' x 16'	1216V _ A _ _ _ _ V _ _
14' x 6'	1406V _ A _ _ _ _ V _ _
14' x 8'	1408V _ A _ _ _ _ V _ _
14' x 10'	1410V _ A _ _ _ _ V _ _
14' x 12'	1412V _ A _ _ _ _ V _ _
14' x 14'	1414V _ A _ _ _ _ V _ _
14' x 16'	1416V _ A _ _ _ _ V _ _
16' x 6'	1606V _ A _ _ _ _ V _ _
16' x 8'	1608V _ A _ _ _ _ V _ _
16' x 10'	1610V _ A _ _ _ _ V _ _
16' x 12'	1612V _ A _ _ _ _ V _ _
16' x 14'	1614V _ A _ _ _ _ V _ _
16' x 16'	1616V _ A _ _ _ _ V _ _

### PANEL SELECTION

Optima® Vector® Panels

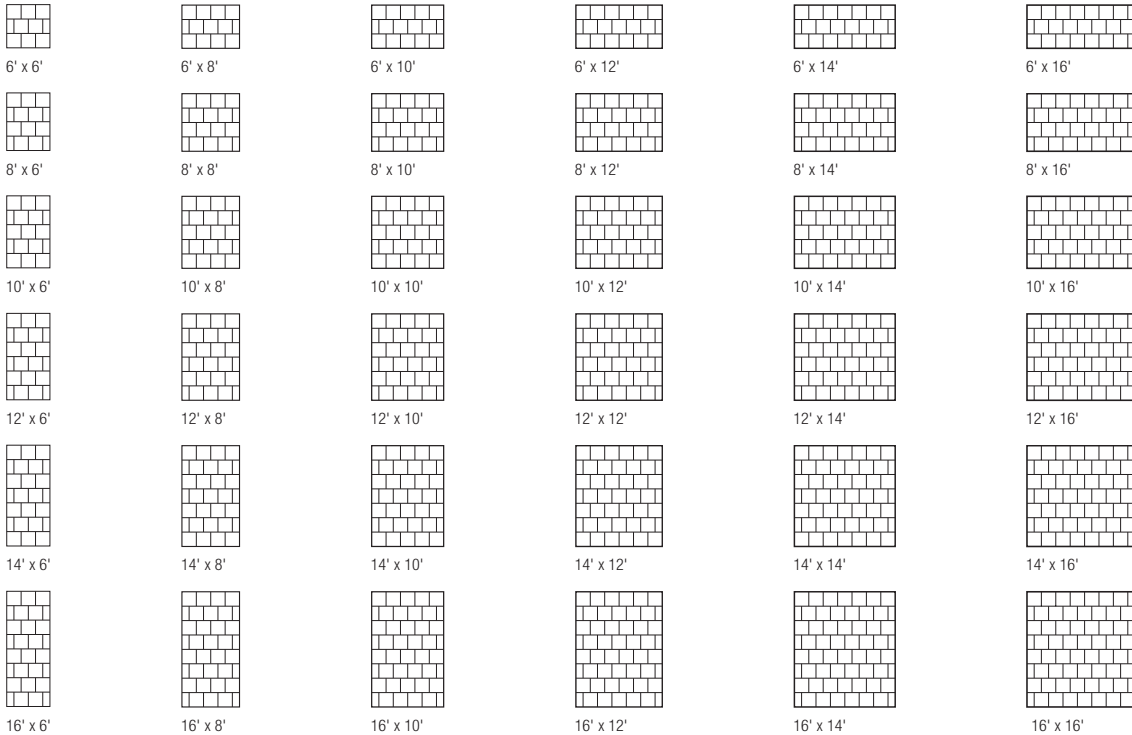
12" x 24" / 24" x 24"	24" x 24" / 24" x 48"	24" x 48" / 24" x 96"
Item 3903 / 3900 (Ctns)	Item 3900 / 3908 (Ctns)	Item 3908 / 3907 (Ctns)
1 / 1	1 / 1	–
1 / 1	1 / 1	–
1 / 2	1 / 1	–
1 / 2	1 / 1	–
1 / 2	1 / 1	–
1 / 2	1 / 1	1 / 1
1 / 1	1 / 1	–
1 / 2	1 / 1	–
1 / 2	1 / 1	–
1 / 2	1 / 1	–
1 / 3	1 / 1	–
1 / 3	1 / 2	1 / 1
1 / 2	1 / 1	–
1 / 2	1 / 1	–
1 / 2	1 / 1	–
1 / 3	1 / 2	–
1 / 3	1 / 2	–
1 / 4	1 / 2	1 / 2
1 / 2	1 / 1	–
1 / 2	1 / 1	–
1 / 3	1 / 2	–
1 / 4	1 / 2	–
1 / 4	1 / 2	1 / 2
1 / 2	1 / 1	–
1 / 3	1 / 1	–
1 / 3	1 / 2	–
1 / 4	1 / 2	–
1 / 4	1 / 2	1 / 2
1 / 2	1 / 1	–
1 / 3	1 / 1	–
1 / 3	1 / 2	–
1 / 4	1 / 2	–
1 / 5	1 / 3	1 / 2
1 / 2	1 / 1	–
1 / 3	1 / 1	–
1 / 3	1 / 2	–
1 / 4	1 / 2	–
1 / 5	1 / 2	–
1 / 5	1 / 3	1 / 2

EXPOSED STRUCTURE – CLOUDS & CANOPIES

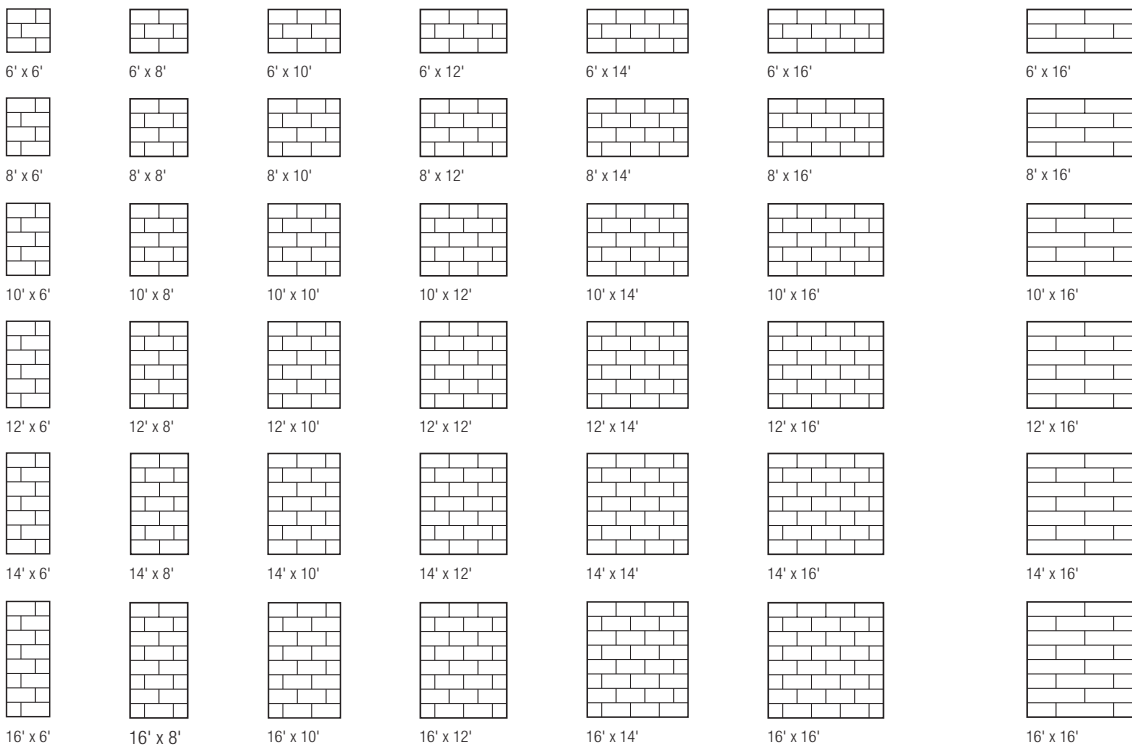
# FORMATIONS™ Acoustical and Accent Cloud Kits – Staggered

## STAGGERED CLOUD SHAPE AND SIZE SELECTION

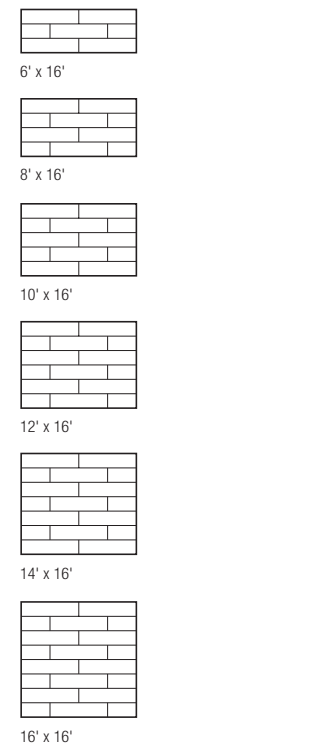
### 12" X 24" / 24" X 24" PANELS



### 24" X 24" / 24" X 48" PANELS



### 24" X 48" / 24" X 96" PANELS



# FORMATIONS™ Acoustical and Accent Cloud Kits – Planks

**LEED** Applies to standard kits only

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

## 5 (continued) SPECIFY KITS, COLORS, AND PANEL SELECTIONS

### HOW TO SPECIFY

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number and the panel item number.

Standard plank clouds feature 15/16" Prelude® suspension system and your choice of 2", 4", or 6" high Axiom® Vector® trim.

EXAMPLE:

**1210 V4P 26V** \_ \_ \_

12' x 10' 4" High 2' x 6' Color  
 Cloud Axiom Optima Suffix  
 Vector Vector  
 Trim Panels

Also order plank Optima® Vector® Panel Kit: 3906 (2' x 6' – 1 carton).

- ◆ If specifying a color other than White, remember to add the color suffix at the end of the Suspension Kit item number.

### VISUAL SELECTION

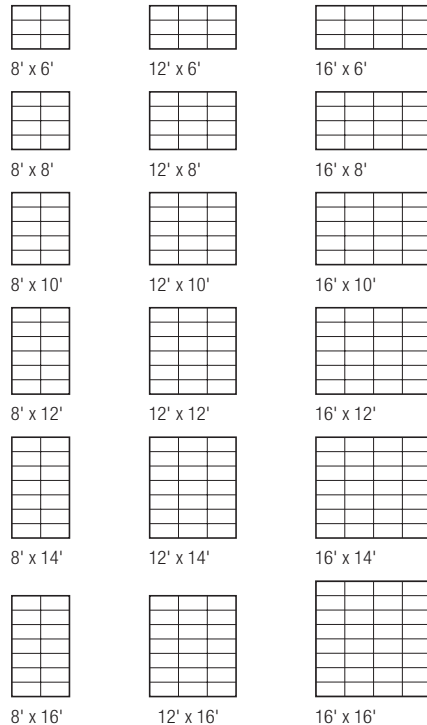
Cloud Size	Suspension Kit Item No. ◆ (Axiom Vector Trim & Suspension System)
<b>Planks</b>	15/16" Prelude
8' x 6'	<b>0806V</b> _ <b>P24V</b> _ _
8' x 8'	<b>0808V</b> _ <b>P24V</b> _ _
8' x 10'	<b>0810V</b> _ <b>P24V</b> _ _
8' x 12'	<b>0812V</b> _ <b>P24V</b> _ _
8' x 14'	<b>0814V</b> _ <b>P24V</b> _ _
8' x 16'	<b>0816V</b> _ <b>P24V</b> _ _
12' x 6'	<b>1206V</b> _ <b>P</b> _ _ <b>V</b> _ _
12' x 8'	<b>1208V</b> _ <b>P</b> _ _ <b>V</b> _ _
12' x 10'	<b>1210V</b> _ <b>P</b> _ _ <b>V</b> _ _
12' x 12'	<b>1212V</b> _ <b>P</b> _ _ <b>V</b> _ _
12' x 14'	<b>1214V</b> _ <b>P</b> _ _ <b>V</b> _ _
12' x 16'	<b>1216V</b> _ <b>P</b> _ _ <b>V</b> _ _
16' x 6'	<b>1606V</b> _ <b>P</b> _ _ <b>V</b> _ _
16' x 8'	<b>1608V</b> _ <b>P</b> _ _ <b>V</b> _ _
16' x 10'	<b>1610V</b> _ <b>P</b> _ _ <b>V</b> _ _
16' x 12'	<b>1612V</b> _ <b>P</b> _ _ <b>V</b> _ _
16' x 14'	<b>1614V</b> _ <b>P</b> _ _ <b>V</b> _ _
16' x 16'	<b>1616V</b> _ <b>P</b> _ _ <b>V</b> _ _

### PANEL SELECTION

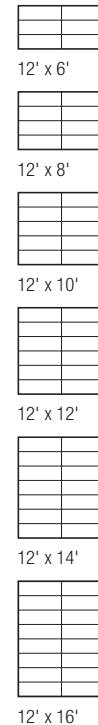
Optima® Vector® Panels	2' x 4'	2' x 6'	2' x 8'
Item 3908 (Ctns)	Item 3906 (Ctns)	Item 3907 (Ctns)	
1	–	–	–
1	–	–	–
1	–	–	–
2	–	–	–
2	–	–	–
2	–	–	–
1	2	–	–
2	2	–	–
2	2	–	–
2	3	–	–
2	3	–	–
3	3	–	–
2	–	2	–
2	–	–	2
2	–	–	2
3	–	–	3
3	–	–	3
3	–	–	3

### PLANKS CLOUD SHAPE AND SIZE SELECTION

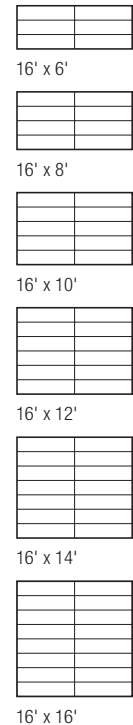
#### 24" x 48" Panels



#### 24" x 72" Panels



#### 24" x 96" Panels



# FORMATIONS™ Cloud Kits for Drywall

25% STEEL 50% ALUMINUM RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED** Applies to standard kits only

- energy management
- construction waste to reuse
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT



Formations™ Drywall Clouds – 10' x 14' with 6" Axiom® one-piece Drywall Trim

This pre-engineered drywall cloud kit looks great every time.

## KEY SELECTION ATTRIBUTES

- Pre-cut suspension system components, perimeter trim, and easy-to-adjust aircraft hanging cables make assembly and installation fast and easy
- Perimeter trim integrates with 5/8" thick drywall (not included in kit)
- Improved floating visual compared to black iron and hat channel built drywall clouds

## TYPICAL APPLICATIONS

- Auditoriums
- Performance venues
- Open plenum spaces

## COLOR



Unfinished (UF)

## 5 (continued): SPECIFY KITS, COLORS, AND PANEL SELECTIONS

### HOW TO SPECIFY

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number. Formations™ drywall cloud kits are only compatible with 5/8" thick drywall.

Standard drywall cloud kits feature your choice of 2", 4", or 6" high unfinished Axiom® drywall trim for easy on-site painting.

EXAMPLE:

**0404D A1P6UF**

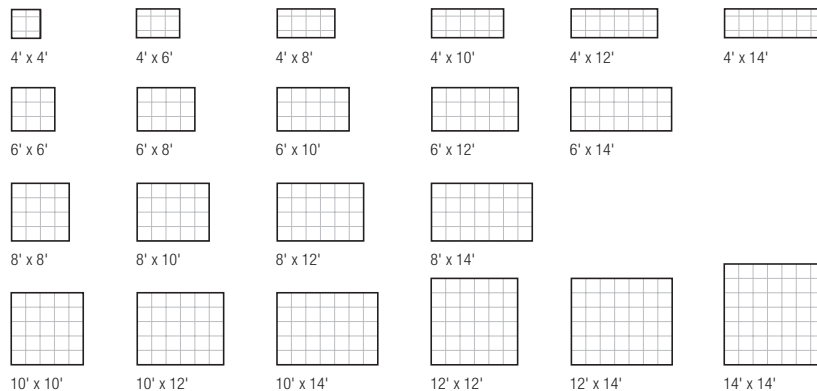
4' x 4'  
Drywall  
Cloud

6" High  
Axiom  
One-piece  
Drywall  
Trim  
Unfinished

### VISUAL SELECTION

Cloud Size	Suspension Kit Item No. (Axiom Trim & Suspension System)	Cloud Size	Suspension Kit Item No. (Axiom Trim & Suspension System)
<b>Drywall</b>	1-1/2" Drywall Grid	<b>Drywall</b>	1-1/2" Drywall Grid
4' x 4'	<b>0404DA1P_UF</b>	8' x 8'	<b>0808DA1P_UF</b>
4' x 6'	<b>0406DA1P_UF</b>	8' x 10'	<b>0810DA1P_UF</b>
4' x 8'	<b>0408DA1P_UF</b>	8' x 12'	<b>0812DA1P_UF</b>
4' x 10'	<b>0410DA1P_UF</b>	8' x 14'	<b>0814DA1P_UF</b>
4' x 12'	<b>0412DA1P_UF</b>	10' x 10'	<b>1010DA1P_UF</b>
4' x 14'	<b>0414DA1P_UF</b>	10' x 12'	<b>1012DA1P_UF</b>
6' x 6'	<b>0606DA1P_UF</b>	10' x 14'	<b>1014DA1P_UF</b>
6' x 8'	<b>0608DA1P_UF</b>	12' x 12'	<b>1212DA1P_UF</b>
6' x 10'	<b>0610DA1P_UF</b>	12' x 14'	<b>1214DA1P_UF</b>
6' x 12'	<b>0612DA1P_UF</b>	14' x 14'	<b>1414DA1P_UF</b>
6' x 14'	<b>0614DA1P_UF</b>		

### DRYWALL CLOUD SHAPE AND SIZE SELECTION



# FORMATIONS™ with DC FLEXZONE™ Suspension Systems Acoustical Clouds

**77%** ULTIMA **71%** OPTIMA **RECYCLED CONTENT** Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

<b>LEED</b> Applies to standard kits only	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
--	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



Formations™ Squares and Rectangles with Ultima® Tegular Panels and Axiom® for Formations 4" and 6" Trim

This pre-engineered acoustical cloud is integrated with DC FlexZone™ suspension system, Axiom® trim, and DC lighting control system.

## KEY SELECTION ATTRIBUTES

- Ideal for open plenum spaces or acoustically challenged space.
- Clouds reduce acoustical reverberation time and noise levels while increasing speech intelligibility
- Formations™ cloud kits include aircraft cables and StrongBack™ suspension system for reduced suspension visibility and improved floating visual

## TYPICAL APPLICATIONS

- Sustainable buildings of all types

## COLOR



## 5 (continued): SPECIFY KITS, COLORS, AND PANEL SELECTIONS

### HOW TO SPECIFY

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number, the panel item number you select, and any lighting or control options you choose to include.

Standard DC FlexZone clouds feature DC FlexZone 9/16" Suprafine® or Silhouette® 1/4" Reveal suspension system and your choice of 4" or 6" high Axiom® Vector® trim.

EXAMPLE:

**DC1014 TSL AV4**  
10' x 14' Cloud Silhouette® XL 1/4" Reveal 4" High Axiom® Vector® Trim

Also order Ultima® Panel Kit: 1912 (24" x 24" – 3 cartons).

Order compatible lighting, power supply, cables, and controls through DC FlexZone partner sites. [armstrongceilings.com/dcflexzone](http://armstrongceilings.com/dcflexzone)

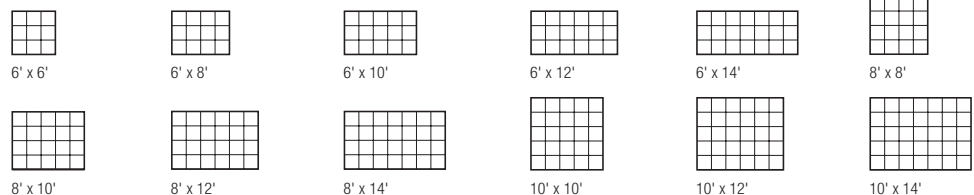
### VISUAL SELECTION

Cloud Size (Feet)	Suspension Kit Item No. (Axiom Trim & Suspension System)	
<b>DC FlexZone™</b>	9/16" Silhouette™ XL 1/4" Reveal	9/16" Suprafine™ XL
6' x 6'	<b>DC0606TSLAV</b> _	<b>DC0606TSFAV</b> _
6' x 8'	<b>DC0608TSLAV</b> _	<b>DC0608TSFAV</b> _
6' x 10'	<b>DC0610TSLAV</b> _	<b>DC0610TSFAV</b> _
6' x 12'	<b>DC0612TSLAV</b> _	<b>DC0612TSFAV</b> _
6' x 14'	<b>DC0614TSLAV</b> _	<b>DC0614TSFAV</b> _
8' x 8'	<b>DC0808TSLAV</b> _	<b>DC0808TSFAV</b> _
8' x 10'	<b>DC0810TSLAV</b> _	<b>DC0810TSFAV</b> _
8' x 12'	<b>DC0812TSLAV</b> _	<b>DC0812TSFAV</b> _
8' x 14'	<b>DC0814TSLAV</b> _	<b>DC0814TSFAV</b> _
10' x 10'	<b>DC1010TSLAV</b> _	<b>DC1010TSFAV</b> _
10' x 12'	<b>DC1012TSLAV</b> _	<b>DC1012TSFAV</b> _
10' x 14'	<b>DC1014TSLAV</b> _	<b>DC1014TSFAV</b> _

### PANEL SELECTION

Optima® Tegular Panels	Ultima Tegular Panels
Item 3251 (Ctns)	Item 1912 (Ctns)
1	1
1	1
1	2
1	2
1	2
1	2
1	2
1	2
2	3
1	3
2	3
2	3

### DC FLEXZONE CLOUD SHAPE AND SIZE SELECTION



# FORMATIONS™ with DC FLEXZONE™ Suspension Systems

Acoustical Clouds

## DC FLEXZONE™ COMPATIBLE POWER SUPPLY, CABLES, LIGHTING, AND CONTROLS

Cloud Size (Feet)	Power Supply <sup>1</sup>	Power Cables <sup>2</sup>	Lights <sup>3</sup>	Controls
<b>DC FlexZone</b>	(Qty)	(Qty)		
6' x 6'	1	2	1	Design by Others
6' x 8'	1	2	1	Design by Others
6' x 10'	1	2	2	Design by Others
6' x 12'	1	2	2	Design by Others
6' x 14'	1	2	2	Design by Others
8' x 8'	1	2	2	Design by Others
8' x 10'	1	2	2	Design by Others
8' x 12'	1	2	2	Design by Others
8' x 14'	1	3	3	Design by Others
10' x 10'	1	2	2	Design by Others
10' x 12'	1	4	4	Design by Others
10' x 14'	1	4	4	Design by Others



- 1 Recommend specifying an EFORE (formerly Real Electronics) 4-channel Safe Energy Server.
  - 2 Recommend specifying TE Connectivity 10' power feed cable assemblies.
  - 3 Recommend specifying this quantity of lighting fixtures, each with a 5' TE load device cable assembly.
- \* All electrical devices shall be ordered from the electrical manufacturer and through normal electrical distribution channels.
- All electrical items and quantities are strictly recommendations. All electrical devices shall be Armstrong®.

DC FlexZone™ suspension system compatible. Armstrong® World Industries does not warrant, and assumes no liability for the accuracy, completeness, or performance of another manufacturer's product. The Specifier is advised to consult with a duly licensed engineering or lighting designer in the particular locale of the installation to assume compliance with all legal requirements for the electrical design and layout.

For sample DC FlexZone for Formations layouts with compatible lighting and controls, visit [www.armstrongceilings.com/formations](http://www.armstrongceilings.com/formations)

## DC FLEXZONE™ COMPATIBLE PARTNERS

Products from each of the categories below need to be specified and ordered separately for a complete DC FLEXZONE™ Formations™ Cloud. Armstrong provides the DC FLEXZONE™ suspension system and ceiling panels.

The other product categories are provided by our DC FLEXZONE™ compatible partners through their normal electrical channels. For more information on DC FLEXZONE™ compatible partners' products, visit [www.armstrongceilings.com/dcflexzone](http://www.armstrongceilings.com/dcflexzone).

### Power Distribution and Controls



### Lighting Options



AXIOM® trims and transitions customer service is available to help with your project from start to finish. Call 1 800 840 8521.

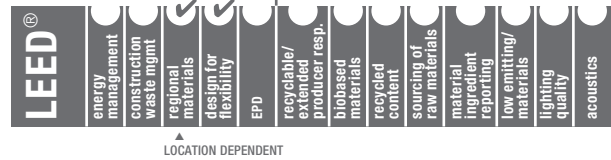
View installation videos or download CAD, Revit®, and SketchUp® files at [armstrongceilings.com/formations](http://armstrongceilings.com/formations)

All company, product names, and trademarks are property of their respective owners.



# INFUSIONS®

Accent Canopies  
smooth texture



Infusions® Accent Canopies 24" x 72" panels in Indigo Surf with side-to-side linking kits

Infusions® playful accent canopies come in a variety of translucent textures and finishes to create custom looks with standard kits.

### KEY SELECTION ATTRIBUTES

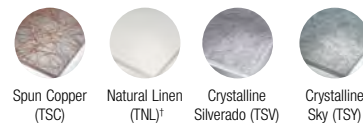
- Mix and match sizes and shapes to define spaces
- Standard components allow you to create custom configurations
- Strong, impact-resistant edges
- Installation is fast and simple – no special tools required

### 24" X 60", 24" X 72" COLORS (partial list)

For all colors see pg. 85

Due to printing limitations, shade may vary from actual product.

#### Patterns



#### Solids



\* Color may vary panel to panel \* Also available in 48" x 120" canopies

### VISUAL SELECTION

Item No. ◆	Dimensions (Inches)	Colors	Pcs./Ctn.
<b>INFUSIONS Accent Canopies – 24" x 60" and 24" x 72" Panel Kits</b>			
54051 ___	24 x 60 x 1/4"	See page 85 for color options	1
54052 ___	24 x 60 x 1/4"	See page 85 for color options	2
54061 ___	24 x 72 x 1/4"	See page 85 for color options	1
54062 ___	24 x 72 x 1/4"	See page 85 for color options	2

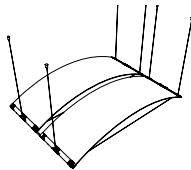
Kit: Flat Infusions panel (1 or 2) with nominal 24" Aluminum Extrusions (2 per panel) attached; cables to form arcs (60° or 90°)

◆ When specifying or ordering, include the appropriate 3-letter suffix (e.g. 54051 C H J)

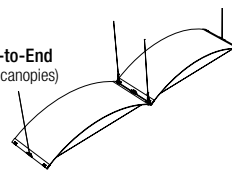
#### Hundreds of Ways to Suspend and Link Infusions Accent Canopies from Ceilings and Walls

8', 16', 30' hanging kits; dual canopy kits

#### Side-by-Side (two canopies with flush, 1/2", or 3" spacing)

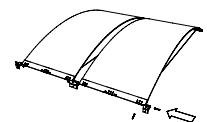


#### End-to-End (two canopies)



#### Wall Attachment

Anchors canopies side-by-side or linking canopies to wall



### PHYSICAL DATA

#### Material

Polycarbonate

Surface Finish – Smooth

#### Fire Performance

Infusions® accent canopies have been tested according to NFPA 286 and are equivalent to Class A Interior Finish as defined by the International Building Code.

Designers and Installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

Contact TechLine at 1 877 276-7876 for specific US and Canadian fire performance data.

#### Design Considerations

Do not cut holes in or drill through Infusions® accent canopies. Doing so may cause the panel to bend in an irregular fashion.

Infusions panels are not approved for exterior application.

#### Installation Considerations

Do not allow the edges of the shapes to get wet or be exposed to moisture.

Infusions® accent canopies can be damaged by exposure to high temperatures. The temperature of the shapes should not be permitted to exceed 100°F.

Follow the guidelines below for minimum distance from standard light sources.

LAMP TYPE	LABEL WATTAGE	MINIMUM DISTANCE
Halogen FL XL PAR 30	60	14"
Incandescent Bulb	120	15"
Quartz Halogen Work Light	500	23"

Additional light transmission information is available at [armstrongceilings.com/infusions](http://armstrongceilings.com/infusions)

Use the assembled canopy weights provided in this table to select mounting hardware that will meet this requirement.

MATERIAL	24" x 60"	24" x 72"
Solid Polycarbonate	21 lbs	25 lbs

#### Seismic Restraint

Refer to ASCE 7-10, Section 13.5 Architectural Components, for seismic requirements. Section 13.5, item 2 refers to 13.2.3 Consequential Damage.

#### Suspension System

Canopy-specific hardware must be ordered based on your design plan. For details and some design guidelines, contact TechLine or visit [armstrongceilings.com/infusions](http://armstrongceilings.com/infusions).

#### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

#### Weight; Pieces/ Carton

PANEL MATERIAL	24" x 60" 1 pc/ctn	24" x 72" 1 pc/ctn
Solid Polycarbonate	21 lbs	25 lbs

ACCESSORY KITS	7006 – 0.3 lbs	7007 – 0.2 lbs	7008 – 0.4 lbs	7010 – 0.7 lbs

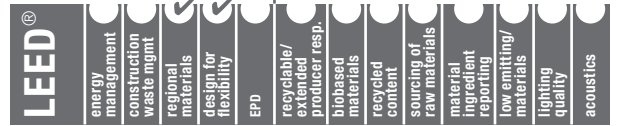
All other accessory kits weigh less than 1 lb each.





# new INFUSIONS® Shapes

Accent Clouds  
smooth texture



LOCATION DEPENDENT



Infusions® Shapes Circles clouds in Playful Peach

These floating clouds are available in a variety of translucent colors and four standard shapes.

### KEY SELECTION ATTRIBUTES

- Add dramatic visual impact with multiple shapes or create a small accent area
- Wide variety of colors to fit any design aesthetic
- Unique shape designs can create a variety of visuals depending on the configuration or angle of installation
- Class A fire performance
- Seismic tested and approved



### COLORS

Due to printing limitations, shade may vary from actual product.



### PANEL OPTIONS

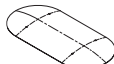
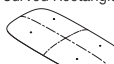
### PERFORMANCE

Item No. ♦	Dimensions (Inches) Nominal	Fire Rating	Warranty
<b>INFUSIONS® Shapes</b> (must be purchased in multiples of two)			
Circle 	<b>7156</b> __ __* 48 x 48 x 4" (Nominal)	Class A	1-Yr
Curved Square 	<b>7157</b> __ __* 48 x 48 x 4" (Nominal)	Class A	1-Yr


♦ When specifying or ordering, include the appropriate 3-letter suffix (e.g., 7156 I Q R)

### PANEL OPTIONS

### PERFORMANCE

Item No. ♦	Dimensions (Inches) Nominal	Fire Rating	Warranty
<b>INFUSIONS® Shapes</b>			
Oval 	<b>7158</b> __ __ 96 x 48 x 4" (Nominal)	Class A	1-Yr
Curved Rectangle 	<b>7159</b> __ __ 96 x 48 x 4" (Nominal)	Class A	1-Yr

### SUSPENSION COMPONENTS

Item Number	Description	Color	Pcs./Ctn.
<b>7149</b> 	Infusions Shapes Hanging Kit**	Metal	1 kit

\*\* Each Shapes Hanging Kit includes four hanging assemblies and is shipped with shapes. Use one kit for each shape.

### ACCESSORIES (OPTIONAL)

Item Number	Description
<b>625530</b>	Extended Hanging Cables – (4) 30' Cables
<b>7006</b>	Escutcheon Kit – Used when hanging shape below an existing ceiling; two kits needed per shape.

### PHYSICAL DATA

**Material**  
Polycarbonate  
**Surface Finish**  
Smooth

### Fire Performance

Infusions® Shapes accent clouds have been tested according to NFPA 286 and are equivalent to Class A Interior Finish as defined by the International Building Code.

Designers and Installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

Contact TechLine at 1 877 276-7876 for specific US and Canadian fire performance data.

### Design Considerations

Infusions® Shapes accent clouds are not approved for exterior application.

### Installation Considerations

Do not allow the edges of the shapes to get wet or be exposed to moisture.

Any fixtures adjacent to Infusions® Shapes accent clouds must be independently supported. There is potential for limited natural deflection of panels.

Infusions® Shapes accent clouds can be damaged by exposure to high temperatures. The temperature of the shapes should not be permitted to exceed 100°F.

Follow these guidelines for minimum distance from standard light sources.

LAMP TYPE	LABEL WATTAGE	MINIMUM DISTANCE
Halogen FL XL PAR 30	60	14"
Incandescent Bulb	120	15"
Quartz Halogen Work Light	500	23"

Additional light transmission information is available at [armstrongceilings.com/infusions](http://armstrongceilings.com/infusions)

### Seismic Restraint

Refer to ASCE 7-10, Section 13.5 Architectural Components, for seismic requirements. Section 13.5, item 2 refers to 13.2.3 Consequential Damage.

### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Pieces/Carton**  
Bulk packaged per order

TechLine / 1 877 276-7876  
[armstrongceilings.com/infusions](http://armstrongceilings.com/infusions)  
(search: infusions shapes)  
BPCS-5123-718

All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC  
Printed in the United States of America

# SERPENTINA® Classic and Semi-Concealed Curved Metal Clouds



Serpentina® Semi-concealed 24" x 72" panels with custom perforations in Silver Satin

Pre-engineered 3D curved metal ceiling system adds drama and acoustical performance with major impact.

## KEY SELECTION ATTRIBUTES

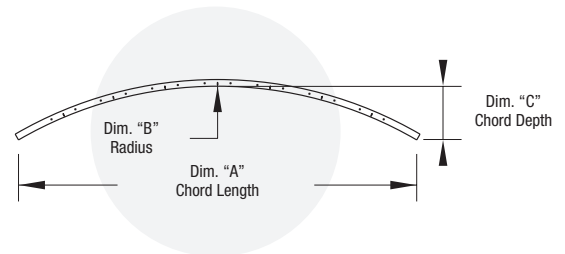
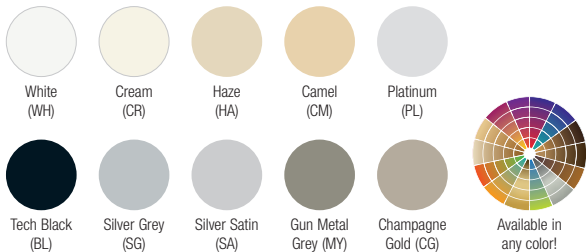
- More main beam options for maximum design flexibility; available in both "Hills" and "Valleys" with 15/16" or 9/16" suspension system
- XL®2 butt-cut cross tee end detail for a faster installation
- Armstrong® standard panel colors available
- Extruded aluminum components and hot-dipped galvanized steel with stainless steel clips provide maximum corrosion resistance
- Serpentina® perforated clouds installed with acoustical infill panels provide greater sound absorption than a continuous ceiling of the same surface area because sound is absorbed from both the front and back surfaces
- 30-Year Limited System Warranty (1-Year Limited System Warranty for Pool Installations)



Serpentina clouds for pools are available in 15/16" Classic and Semi-concealed. Acoustical infill panels are available if required. Contact TechLine or your local Armstrong Ceilings representative for questions related to pool applications.

**COLORS** Due to printing limitations, shade may vary from actual product.

## Standard Colors



## PERFORATION OPTIONS AND ACOUSTICS

Perforation specifications can be found on pg. 101

	UPA Unperforated	R042	R062	**R250	***R375	***R188
Acoustic Infill						
8200T10	–	1.14	1.14	0.96	1.03	0.94
Fleece	–	0.68	0.77	0.87	0.84	0.65
No Fleece	–	–	–	0.05	–	–
	***S250	***S375	**S500	***H250	**R125	Custom
Acoustic Infill						
8200T10	1.06	1.04	0.95	0.96	–	–
Fleece	–	–	–	–	–	–
No Fleece	–	–	–	0.04	–	–

\*\* Laminated acoustical fleece is not available for use in Pool Applications or on perforated Panels R125, S500, R250, H250, Diamond Sheer, and Diamond Louver due to open cell percentage. For acoustical correction in pool installations, specify 24" x 24" poly bags.

\*\*\* Tech Black, Fine Fissured™ panels, laminated to the back of Serpentina perforated metal panels, provide a matching visual for flat areas adjacent to, or within, a Serpentina ceiling. Available for R188, R375, and S375.

\*\*\*\* H250 Perforation meets NFPA guidelines for sprinkler systems.

# SERPENTINA® Classic and Semi-Concealed Curved Metal Clouds

UP TO **50%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED** energy management construction waste mgmt regional materials design for flexibility EPD recyclable/extended producer resp. bio-based materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

LOCATION DEPENDENT

## SERPENTINA® SUSPENSION SYSTEM

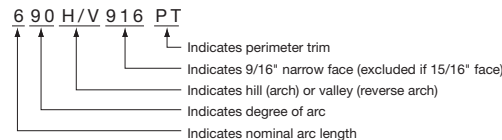
### Serpentina Main Beams and Curved Perimeter Trim

Item No. ♦	Arc	Dim. "A"	Dim. "B"	Dim. "C"	Item No. ♦	Arc	Dim. "A"	Dim. "B"	Dim. "C"
10225	22.5	9' 11-1/4"	25' 5-9/16"	0' 5-7/8"	6375	37.5	5' 10-3/4"	9' 2"	0' 5-13/16"
1030	30	9' 10-5/8"	19' 1-3/16"	0' 7-13/16"	645	45	5' 10-1/8"	7' 7-11/16"	0' 7-1/16"
10375	37.5	9' 9-7/8"	15' 3-5/16"	0' 9-3/4"	6525	52.5	5' 8-3/4"	6' 6-9/16"	0' 8-1/8"
1045	45	9' 8-7/8"	12' 8-13/16"	0 11-3/8"	660	60	5' 8-3/4"	5' 8-3/4"	0' 9-5/16"
10525	52.5	9' 7-7/8"	10' 10-15/16"	1' 1-1/2"	675	75	5' 7"	4' 7"	0' 11-3/8"
1060	60	9' 6-9/16"	9' 6-9/16"	1' 3-5/8"	690	90	5' 4-1/2"	3' 9-13/16"	1' 1-7/16"
1075	75	9' 3-5/8"	7' 7-11/16"	1' 6-15/16"	4075	7.5	3' 11-15/16"	30' 6-5/8"	0' 0-13/16"
1090	90	9' 0"	6' 4-3/8"	1' 10-3/8"	415	15	3' 11-7/8"	15' 3-3/8"	0' 1-9/16"
815	15	7' 11-3/4"	30' 6-11/16"	0' 3-18"	4225	22.5	3' 11-11/16"	10' 2-1/4"	0' 2-5/16"
8225	22.5	7' 11-3/8"	20' 4-7/16"	0' 4-3/4"	430	30	3' 11-3/8"	7' 7-11/16"	0' 3-1/8"
830	30	7' 10-7/8"	15' 3-3/8"	0' 6-1/4"	4375	37.5	3' 11-1/8"	6' 1-3/8"	0' 3-7/8"
8375	37.5	7' 10-5/16"	12' 2-11/16"	0' 7-3/4"	445	45	3' 10-3/4"	5' 1-1/8"	0' 4-5/8"
845	45	7' 9-9/16"	10' 2-1/4"	0' 9-7/16"	4525	52.5	3' 10-5/16"	4' 4-3/8"	0' 5-3/8"
8525	52.5	7' 8-11/16"	8' 8-3/4"	0' 10-13/16"	460	60	3' 9-7/8"	3' 9-13/16"	0' 6-1/16"
860	60	7' 7-11/16"	7' 7-11/16"	1' 0-7/16"	475	75	3' 8-1/2"	3' 0-5/8"	0' 7-1/2"
875	75	7' 5-5/16"	6' 1-5/16"	1' 3-3/16"	490	90	3' 7-1/4"	2' 6-9/16"	0' 8-13/16"
890	90	7' 2-7/16"	5' 1-1/8"	1' 5-7/8"					
615	15	5' 11-13/16"	22' 11"	0' 2-3/8"					
6225	22.5	5' 11-9/16"	15' 3-3/8"	0' 3-9/16"					
630	30	5' 11-3/16"	11' 5-1/2"	0' 4-9/16"					

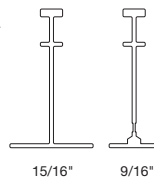
♦ When specifying or ordering, add the appropriate perforation and color suffixes

For additional information and accessories, see brochure BPCS-3960.

CAD drawings available on [armstrongceilings.com/serpentina](http://armstrongceilings.com/serpentina)



Serpentina® main beams are identified by arc length. For example, a 690 hill main beam has a 5' 4-1/2" chord length and will occupy 5' 4-1/2" of ceiling area.



NOTE: 9/16" suspension uses 24" x 24" panels only, and is not available for pool applications.

### Perimeter Trim

Trim	4STR	N/A	N/A	N/A	N/A
6STR	N/A	N/A	N/A	N/A	N/A
8STR	N/A	N/A	N/A	N/A	N/A
10STR	N/A	N/A	N/A	N/A	N/A

### PERFORATION SPECIFICATIONS

Perforation	Perforation Size	Open Area	Border
R042	3/64" Dia. @ 1/8" O.C.	11%	No border
R062	1/16" Dia. @ 1/4" O.C.	6%	No border
R250	1/4" Dia. @ 0.32" O.C.	58%	Nominal 3/4" border
R375	3/8" Dia. @ 1-1/8" O.C.	10%	Nominal 3/4" border
R188	3/16" Dia. @ 1" O.C.	4%	Nominal 3/4" border
S250	1/4" x 1/4" @ 3/4" O.C.	11%	Nominal 3/4" border
S375	3/8" x 3/8" @ 1-1/8" O.C.	11%	Nominal 3/4" border
S500	1/2" x 1/2" @ 5/8" O.C.	64%	Nominal 3/4" border
H250	1/4" width @ .281 Staggered	79%	Nominal 3/4" border
R125	1/8" Dia. @ 3/16" O.C.	41%	Nominal 3/4" border

### PHYSICAL DATA

#### Material

Extruded aluminum curved main beams and hot-dipped galvanized steel Prelude® or Suprafine® cross tees. Pool applications receive aluminum Prelude cross tees with stainless steel clips.

#### Main Beam Load Test Data

Hanger Spacing (Lbs/LF)  
(Applies to straight 15/16" face sections only)  
42" – 18.66      48" – 10.80

Cross Tee/Main Beam Interface  
Flush Fit

#### End Detail

Staked-on clip

#### Panel Sizes

24" x 48" and 24" x 72" semi-concealed metal panel options; 24" x 24", 24" x 48", and 24" x 72" lay-in panel options (select panel types perforated and unperforated).

#### Design Considerations

9/16" suspension systems use 24" x 24" panels only. (9/16" suspension systems are not available for pool applications.)

#### Seismic Requirements

Serpentina clouds are approved for use in all seismic areas when installed per the seismic guidelines in the Armstrong Ceilings installation instructions.

#### Acoustical Options

By adding optional poly-bagged fiberglass or laminated fleece backing, you can achieve a greater acoustical performance in your design. No ASTM test exists for curved configurations.

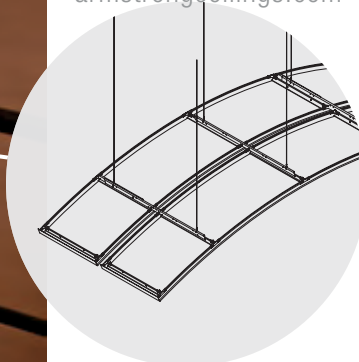
#### Fire Performance

Metal: Class A

# SERPENTINA® Vault

## Curved Metal Clouds

CAD/Revit® drawings at:  
armstrongceilings.com



plus capabilities  
to do more



armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

Serpentina® Vault 24" x 120" unperforated panel in Dark Cherry

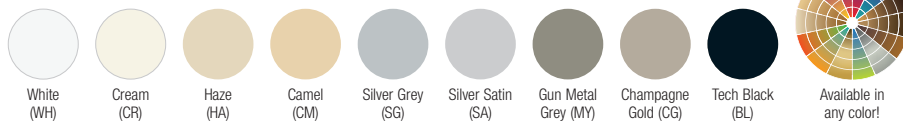
Easy-to-specify and install curved metal clouds define and create visual interest.

### KEY SELECTION ATTRIBUTES

- Install with fewer cables for a dramatic floating visual
- Wide variety of finishes available
- Pre-engineered and shipped ready to install (no field modification necessary)
- Panels available in 24" x 72", 24" x 96", 24" x 120", and 24" x 144"
- Available in 15°, 30°, 45°, 60°, 75°, and 90° arcs
- Aircraft cable, vault spacer support, and hardware shipped as part of kit
- Serpentina® perforated clouds installed with acoustical infill panels provide greater sound absorption than a continuous ceiling of the same surface area because sound is absorbed from both the front and back surfaces
- 30-Year Limited System Warranty

**COLORS** Due to printing limitations, shade may vary from actual product.

#### Standard Colors



#### Wood Looks Architectural Film Colors (not available perforated)



### PERFORATION OPTIONS AND ACOUSTICS

Perforation specifications can be found on pg. 103

Acoustic Infill	UPA Unperforated	R042	R062
8200T10	–	1.14	1.14
Fleece	–	0.68	0.77
No Fleece	–	–	–

# SERPENTINA® Vault

## Curved Metal Clouds

UP TO **50%** RECYCLED CONTENT

**LEED®**

- energy management
- construction waste to right
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

### HOW TO SPECIFY

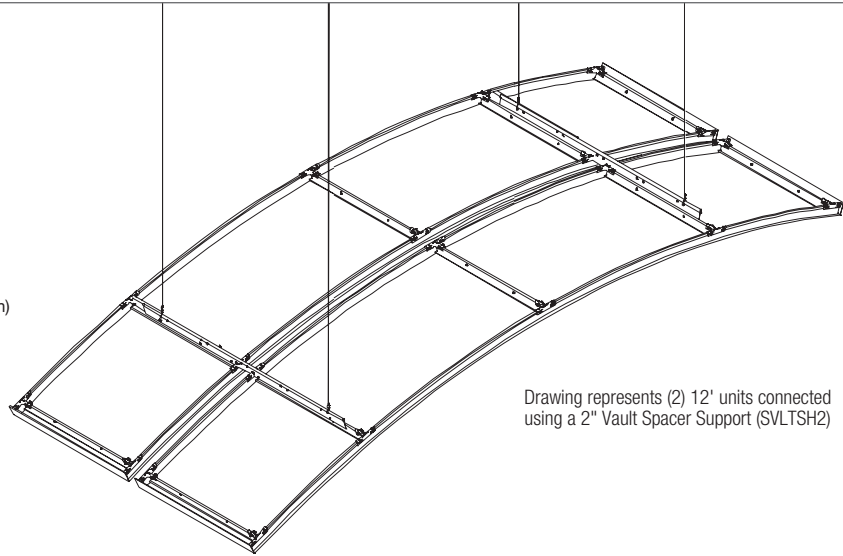
Simple guide on how to select your Vault:

1. Panel Length (72", 96", 120", 144")
2. Arc Choice (15°, 30°, 45°, 60°, 75°, 90°)
3. Perf Pattern (R042, R062, UPA)
4. Color (see page 73)
5. Denote Your Panel Spacing (2", 4", 6") in your specification

EXAMPLE:

**SVT 1230R042 MY**

- SVT → Serpentina Vault
- 12 → Panel Length (24" x 144")
- 30 → Arc (30°)
- R042 → Perf Pattern (R042 Perforation)
- MY → Color (Gun Metal)



Drawing represents (2) 12' units connected using a 2" Vault Spacer Support (SVLTSH2)

### ARC CHOICES



### PANELS

Sizes

- 24" x 72"
- 24" x 96"
- 24" x 120"
- 24" x 144"

### PANEL SPACING

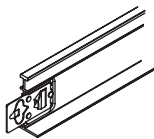
Create 2", 4", or 6" spacing between panels (include in your specification)

Item No.

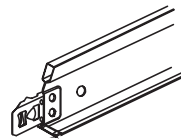
Description

- |         |                         |
|---------|-------------------------|
| SVLTSH2 | 2" Vault Spacer Support |
| SVLTSH4 | 4" Vault Spacer Support |
| SVLTSH6 | 6" Vault Spacer Support |

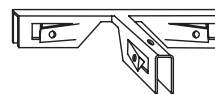
### SERPENTINA® VAULT COMPONENTS



Serpentina Main Beam  
(15/16")



2' Prelude® Cross Tee  
(15/16")



GC3W  
Grip Clip 3-Way



Aircraft Cable  
and hardware

### PERFORATION SPECIFICATIONS

Perforation	Perforation Size	Open Area	Border
<b>R042</b>	3/64" Dia. @ 1/8" O.C.	11%	No border

Perforation	Perforation Size	Open Area	Border
<b>R062</b>	1/16" Dia. @ 1/4" O.C.	6%	No border

### PHYSICAL DATA

#### Material

Extruded aluminum main beams and hot-dipped galvanized steel cross tees.

#### Fire Performance

Metal is ASTM E84 Class A per IBC Class A: Flame Spread 25 or under and Smoke Developed 50 or less.

#### Seismic Requirements

Refer to ASCE 7-10 for seismic requirements

#### Warranty Information

30-Year Limited System Warranty

TechLine / 1 877 276 7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: serpentina)  
BPCS-3621-718

LEED® is a registered trademark of The US Green Building Council®  
Revit® is a registered trademark of Autodesk, Inc.  
All other trademarks used herein are the property of AWI Licensing LLC  
and/or its affiliates. © 2018 AWI Licensing LLC  
Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

# SERPENTINA® Waves™

## Curved Metal Clouds



Serpentina® Waves™ Clouds 24" x 96", 24" x 120", and 24" x 144" with R062 perforation in Silver Satin.

Corrugated Infill Panel

Serpentina® Waves™ curved metal cloud kits combine easy installation with striking visual power.

### KEY SELECTION ATTRIBUTES

- Wide variety of finishes
- 30-Year Limited System Warranty
- 60 pre-engineered kits that are easy to specify and install
- Panel lengths available up to 144"
- Serpentina® Waves™ perforated clouds installed with acoustical infill panels provide greater sound absorption than a continuous ceiling of the same surface area because sound is absorbed from both the front and back surfaces

plus capabilities

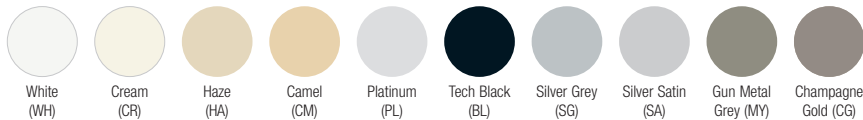
to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

**COLORS\*** Due to printing limitations, shade may vary from actual product.

### Standard Colors



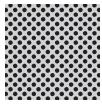
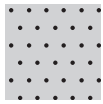


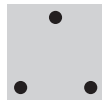

Available in any color!

### Wood Looks Architectural Film Colors (not available perforated)





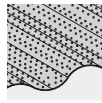
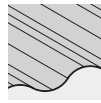


### PERFORATION OPTIONS AND ACOUSTICS

Perforation specifications can be found on pg. 105

						
Acoustic Infill	R042	R062	**R125	**R250	***R188	***R375
8200T10	1.14	1.14	—	0.96	0.94	1.03
Fleece	0.68	0.77	—	0.87	0.65	0.84
No Fleece	—	—	—	0.05	—	—

						
Acoustic Infill	***S250	***S375	**S500	UPA Unperforated	**CR125	CUPA Unperforated Corrugated Panel
8200T10	1.06	1.04	0.95	—	—	—
Fleece	—	—	—	—	—	—
No Fleece	—	—	—	—	—	—

\*\* Laminated acoustical fleece is not available on Perforated Panels R125, R250, S500, CR125 or CUPA due to open cell percentage or panel profile.

\*\*\* Acoustical fleece comes standard

# SERPENTINA® Waves™

## Curved Metal Clouds

UP TO **50%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED®**

- energy management
- construction waste to reuse
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

### SERPENTINA® WAVES™ COMPONENTS (sold separately)

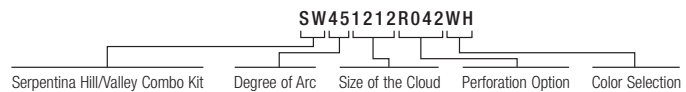
Item No. ♦	Description	Item No. ♦	Description
___ H/V	Main Beam (15/16")	<b>SPTSPLICE</b>	Serpentina® Splice Plate
<b>SPTSTR</b>	1' - 12' Straight Trim	<b>AX-SPT-HDC</b>	Serpentina® Trim Hold Down Clip
___ H/V PT	Curved Trim	<b>SCXT24MR</b> <b>SCXT24SPT</b>	Cross tee that connects main beams Cross tee that connects main beams to perimeter trim
<b>SH12</b>	Serpentina® StrongBack™ System	<b>SCXT24SPT2</b>	Cross tees that connects perimeter trim to perimeter trim (2' wide modules)
<b>SPTOSCP</b>	Serpentina® Outside Corner Post	<b>SPTCS4-12</b>	Serpentina® Waves Connector Sleeves
<b>AXCLTW</b>	Serpentina® Trim Twist Clip	<b>Speed Clip</b>	Serpentina® Semi-Concealed Splice Clip (3 per panel interface)

♦ Indicate appropriate Serpentina Waves Kit number

### SERPENTINA WAVES KITS

Item No. ♦	Hill (SH)	Valley (SV)	Hill/Valley Combo (SW)	Arc Degree	Description	Direction of Arc/ Size/Type
<b>SH300404</b> _____	•			30	Hill with 30° arc	
<b>SH450404</b> _____	•			45	Hill with 45° arc	
<b>SV300404</b> _____		•		30	Valley with 30° arc	
<b>SV450404</b> _____		•		45	Valley with 45° arc	4' x 4'
<b>SH300604</b> _____	•			30	Hill with 30° arc	
<b>SH450604</b> _____	•			45	Hill with 45° arc	
<b>SV300604</b> _____		•		30	Valley with 30° arc	
<b>SV450604</b> _____		•		45	Valley with 45° arc	6' x 4'
<b>SH300804</b> _____	•			30	Hill with 30° arc	
<b>SH450804</b> _____	•			45	Hill with 45° arc	
<b>SV300804</b> _____		•		30	Valley with 30° arc	
<b>SV450804</b> _____		•		45	Valley with 45° arc	
<b>SW300804</b> _____			•	30	Hill/Valley with 30° arc	
<b>SW450804</b> _____			•	45	Hill/Valley with 45° arc	8' x 4'
<b>SH301004</b> _____	•			30	Hill with 30° arc	
<b>SH451004</b> _____	•			45	Hill with 45° arc	
<b>SV301004</b> _____		•		30	Valley with 30° arc	
<b>SV451004</b> _____		•		45	Valley with 45° arc	10' x 4'

♦ When specifying or ordering, add the appropriate perforation and color suffixes

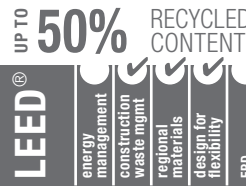


### PERFORATION SPECIFICATIONS

Perforation	Perforation Size	Open Area	Border	Perforation	Perforation Size	Open Area	Border
<b>R042</b>	3/64" Dia. @ 1/8" O.C.	11%	No border	<b>S250</b>	1/4" x 1/4" @ 3/4" O.C.	11%	Nominal 3/4" border
<b>R062</b>	1/16" Dia. @ 1/4" O.C.	6%	No border	<b>S375</b>	3/8" x 3/8" @ 1-1/8" O.C.	11%	Nominal 3/4" border
<b>R250</b>	1/4" Dia. @ 0.32" O.C.	58%	Nominal 3/4" border	<b>S500</b>	1/2" x 1/2" @ 5/8" O.C.	64%	Nominal 3/4" border
<b>R375</b>	3/8" Dia. @ 1-1/8" O.C.	10%	Nominal 3/4" border	<b>H250</b>	1/4" width @ .281 Staggered	79%	Nominal 3/4" border
<b>R188</b>	3/16" Dia. @ 1" O.C.	4%	Nominal 3/4" border	<b>R125</b>	1/8" Dia. @ 3/16" O.C.	41%	Nominal 3/4" border

# SERPENTINA® Waves™

## Curved Metal Clouds



Calculate LEED contribution at [armstrongceilings.com/greengene](http://armstrongceilings.com/greengene)

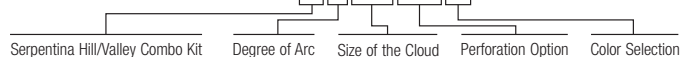
LOCATION DEPENDENT

### SERPENTINA® WAVES™ KITS

Item No. ♦	Hill (SH)	Valley (SV)	Hill/Valley Combo (SW)	Arc Degree	Description	Direction of Arc/ Size/Type
SH301204	•			30	Hill with 30° arc	
SH451204	•			45	Hill with 45° arc	
SV301204		•		30	Valley with 30° arc	
SV451204		•		45	Valley with 45° arc	
SW301204			•	30	Hill/Valley with 30° arc	
SW451204			•	45	Hill/Valley with 45° arc	12' x 4'
SH300406	•			30	Hill with 30° arc	
SH450406	•			45	Hill with 45° arc	
SV300406		•		30	Valley with 30° arc	
SV450406		•		45	Valley with 45° arc	4' x 6'
SH300606	•			30	Hill with 30° arc	
SH450606	•			45	Hill with 45° arc	
SV300606		•		30	Valley with 30° arc	
SV450606		•		45	Valley with 45° arc	6' x 6'
SH300806	•			30	Hill with 30° arc	
SH450806	•			45	Hill with 45° arc	
SV300806		•		30	Valley with 30° arc	
SV450806		•		45	Valley with 45° arc	
SW300806			•	30	Hill/Valley with 30° arc	
SW450806			•	45	Hill/Valley with 45° arc	8' x 6'
SH301006	•			30	Hill with 30° arc	
SH451006	•			45	Hill with 45° arc	
SV301006		•		30	Valley with 30° arc	
SV451006		•		45	Valley with 45° arc	10' x 6'
SH301206	•			30	Hill with 30° arc	
SH451206	•			45	Hill with 45° arc	
SV301206		•		30	Valley with 30° arc	
SV451206		•		45	Valley with 45° arc	
SW301206			•	30	Hill/Valley with 30° arc	
SW451206			•	45	Hill/Valley with 45° arc	12' x 6'
SH300408	•			30	Hill with 30° arc	
SH450408	•			45	Hill with 45° arc	
SV300408		•		30	Valley with 30° arc	
SV450408		•		45	Valley with 45° arc	4' x 8'
SH300608	•			30	Hill with 30° arc	
SH450608	•			45	Hill with 45° arc	
SV300608		•		30	Valley with 30° arc	
SV450608		•		45	Valley with 45° arc	6' x 8'
SH300808	•			30	Hill with 30° arc	
SH450808	•			45	Hill with 45° arc	
SV300808		•		30	Valley with 30° arc	
SV450808		•		45	Valley with 45° arc	
SW300808			•	30	Hill/Valley with 30° arc	
SW450808			•	45	Hill/Valley with 45° arc	8' x 8'
SH301008	•			30	Hill with 30° arc	
SH451008	•			45	Hill with 45° arc	
SV301008		•		30	Valley with 30° arc	
SV451008		•		45	Valley with 45° arc	10' x 8'
SH301208	•			30	Hill with 30° arc	
SH451208	•			45	Hill with 45° arc	
SV301208		•		30	Valley with 30° arc	
SV451208		•		45	Valley with 45° arc	
SW301208			•	30	Hill/Valley with 30° arc	
SW451208			•	45	Hill/Valley with 45° arc	12' x 8'

♦ When specifying or ordering, add the appropriate perforation and color suffixes

SW451212R042WH



EXPOSED STRUCTURE – CLOUDS & CANOPIES



# SERPENTINA® Waves™

## Curved Metal Clouds



Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

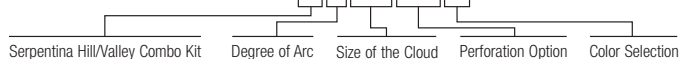
LOCATION DEPENDENT

### SERPENTINA® WAVES™ KITS

Item No. ♦	Hill (SH)	Valley (SV)	Hill/Valley Combo (SW)	Arc Degree	Description	Direction of Arc/ Size/Type
SH300410	•			30	Hill with 30° arc	
SH450410	•			45	Hill with 45° arc	
SV300410		•		30	Valley with 30° arc	
SV450410		•		45	Valley with 45° arc	
SH300610	•			30	Hill with 30° arc	
SH450610	•			45	Hill with 45° arc	
SV300610		•		30	Valley with 30° arc	
SV450610		•		45	Valley with 45° arc	
SH300810	•			30	Hill with 30° arc	
SH450810	•			45	Hill with 45° arc	
SV300810		•		30	Valley with 30° arc	
SV450810		•		45	Valley with 45° arc	
SW300810			•	30	Hill/Valley with 30° arc	
SW450810			•	45	Hill/Valley with 45° arc	
SH301010	•			30	Hill with 30° arc	
SH451010	•			45	Hill with 45° arc	
SV301010		•		30	Valley with 30° arc	
SV451010		•		45	Valley with 45° arc	
SH301210	•			30	Hill with 30° arc	
SH451210	•			45	Hill with 45° arc	
SV301210		•		30	Valley with 30° arc	
SV451210		•		45	Valley with 45° arc	
SW301210			•	30	Hill/Valley with 30° arc	
SW451210			•	45	Hill/Valley with 45° arc	
SH300412	•			30	Hill with 30° arc	
SH450412	•			45	Hill with 45° arc	
SV300412		•		30	Valley with 30° arc	
SV450412		•		45	Valley with 45° arc	
SH300612	•			30	Hill with 30° arc	
SH450612	•			45	Hill with 45° arc	
SV300612		•		30	Valley with 30° arc	
SV450612		•		45	Valley with 45° arc	
SH300812	•			30	Hill with 30° arc	
SH450812	•			45	Hill with 45° arc	
SV300812		•		30	Valley with 30° arc	
SV450812		•		45	Valley with 45° arc	
SW300812			•	30	Hill/Valley with 30° arc	
SW450812			•	45	Hill/Valley with 45° arc	
SH301012	•			30	Hill with 30° arc	
SH451012	•			45	Hill with 45° arc	
SV301012		•		30	Valley with 30° arc	
SV451012		•		45	Valley with 45° arc	
SH301212	•			30	Hill with 30° arc	
SH451212	•			45	Hill with 45° arc	
SV301212		•		30	Valley with 30° arc	
SV451212		•		45	Valley with 45° arc	
SW301212			•	30	Hill/Valley with 30° arc	
SW451212			•	45	Hill/Valley with 45° arc	

♦ When specifying or ordering, add the appropriate perforation and color suffixes

SW451212R042WH



# SOUNDSCAPES®

## Acoustical Canopies



SoundScapes® Acoustical Canopies 46-1/2" x 75" Hill panels in White

These shapely canopies enhance acoustics with spot absorption to define spaces.

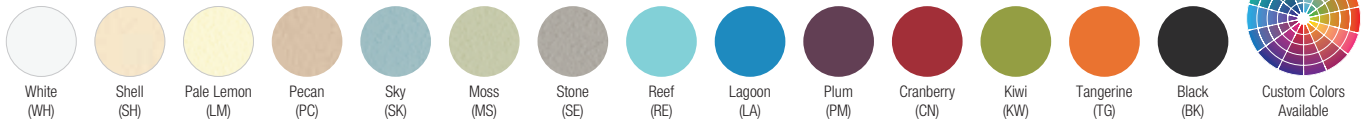
### KEY SELECTION ATTRIBUTES

- Hill and valley shapes available in multiple sizes
- Adjustable to special heights
- Energy-efficient, high light-reflectant surface (White only)
- Embedded flush-mounted hardware system for clean look
- Coordinate with SoundScapes® Shapes and Infusions®

plus capabilities  
to do more

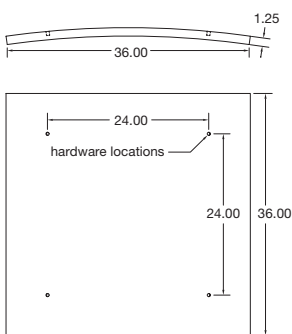
[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

**COLORS** Due to printing limitations, shade may vary from actual product.

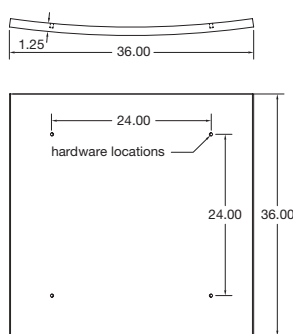


Coordinating Calla® and Lyra® DESIGNFlex™ colors available!

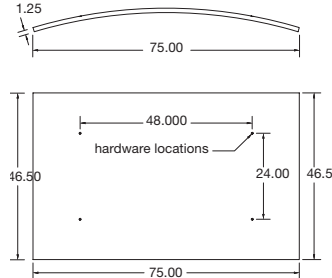
### ELEVATION VIEWS



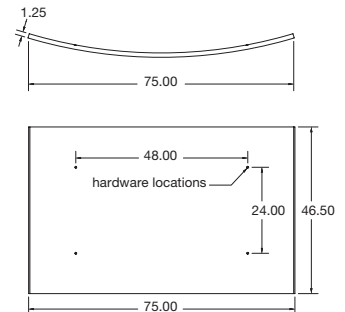
Hill – Hardware side



Valley – Hardware side



Hill – Hardware side



Valley – Hardware side

# SOUNDSCAPES® Acoustical Canopies

**47% RECYCLED CONTENT**

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

Item No. ♦	Description	Dimensions (Inches)
6258	Hill Canopy	46-1/2 x 75 x 1-1/4"
6259	Valley Canopy	46-1/2 x 75 x 1-1/4"
6260	Hill Canopy	36 x 36 x 1-1/4"
6261	Valley Canopy	36 x 36 x 1-1/4"

♦ Add 2-letter color suffix to item number when specifying or ordering (e.g. 6258 L M)

NOTE: SoundScapes® Canopies kits include canopies, installation hardware, and 16' cables.

## ACCESSORIES

Item Number	Description
625530	Extended Hanging Cables – (4) 30' Cables; replaces 16' cable in suspension kit.
7006	Escutcheon Kit – Used when hanging canopy below an existing ceiling; two kits needed per SoundScapes panel.

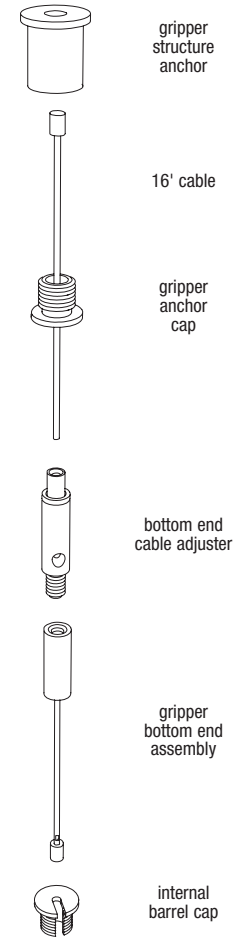


## PERFORMANCE

Dots represent high level of performance.

Sabin/Panel	Fire Rating	Light Reflect (White Only)	Wash	Scratch	Soil	Recycled Content	Recycle Program
30	Class A	0.90	•	•	•	Std	•
30	Class A	0.90	•	•	•	Std	•
11.25	Class A	0.90	•	•	•	Std	•
11.25	Class A	0.90	•	•	•	Std	•

LOCATION DEPENDENT



Canopies Suspension Kit

## PHYSICAL DATA

### Material

Mineral fiber pre-formed in canopy shape

### Panel Arc

Fixed 129" radius

### Surface Finish and Edge Detail

DuraBrite® scrim on all sides, finished square edges

### Fire Performance

ASTM E84 Class A per IBC Class A: Flame Spread 25 or under and Smoke Developed 50 or less.

SoundScapes® acoustical canopies, as with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

### Acoustical Performance (based on 48" x 72" canopy)

30 Sabin per panel using ASTM C423, or 78% more sound absorption than the same square footage of NRC 0.70 continuous ceilings.

### Design Considerations

SoundScapes® acoustical canopies cannot be cut, drilled, or altered in any way. Panels can be damaged by exposure to moisture, to high temperatures, and to high humidity. They are not approved for exterior application.

Canopies must be installed a minimum of 18" apart. Lipping may be visible in installations closer than 18".

Field painting may affect the acoustical and/or fire performance, is not recommended, and will void the product warranty.

Special care in installation and handling must be taken with color canopies to avoid surface damage to the paint finish.

The SoundScapes cable hanging system must not hang from any commercial ceiling suspension system. The canopy must not be used to support any other material.

### Installation Considerations

SoundScapes® acoustical canopies must remain in their cartons until ready to hang. They require two people to handle and install a panel safely. Do not remove the canopy edge protectors until the panel is installed. Canopies in colors other than White require additional care to reduce scuffing. See installation instructions on web site for details.

### Seismic Restraint

SoundScapes® canopies are approved for application in all seismic areas when installed per the seismic guidelines in the Armstrong ceilings installation instructions.

### Suspension System

Embedded, flush-mounted hardware system and aircraft cables provided in panel kits.

### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight

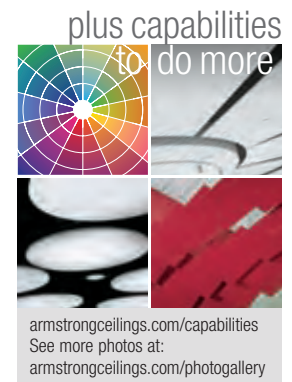
Bulk packaged per order  
6258, 6259 – 50 lbs per panel  
6260, 6261 – 19.4 lbs per panel

# SOUNDSCAPES® Shapes

## Acoustical Clouds



SoundScapes® Shapes panels in Pale Lemon, Cranberry, Plum, and Tangerine

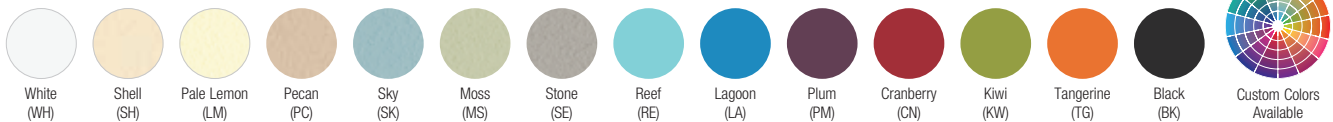


Acoustics delivered via playful shapes and colors in standard and custom options.

### KEY SELECTION ATTRIBUTES

- Enhance acoustics in open areas
- Aesthetically define spaces
- Standard flat panels in multiple sizes and shapes; custom shapes available
- Adjustable to various heights and angles
- 360° panel finishing capability available
- Quick and easy to install from a deck, through a ceiling, directly attached to drywall, on a standard suspension system, or on a wall

**COLORS** Due to printing limitations, shade may vary from actual product.



Coordinating Calla® and Lyra® DESIGNFlex™ colors available!

# SOUNDSCAPES® Shapes

## Acoustical Clouds

**71% RECYCLED CONTENT**

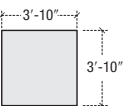
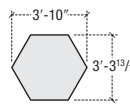
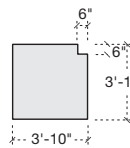
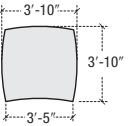
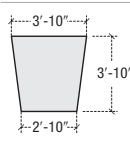
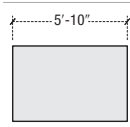
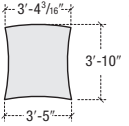
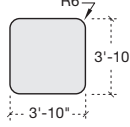
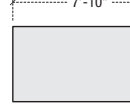
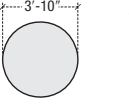
LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

### PANEL OPTIONS (shown in finish view from below ceiling)

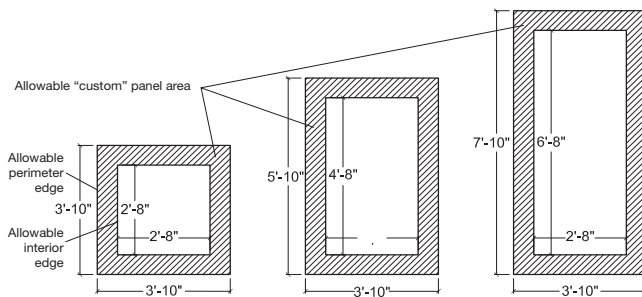
Item No. ♦	Description/Dimensions (Inches)	Item No. ♦	Description/Dimensions (Inches)	Item No. ♦	Description/Dimensions (Inches)
	<b>5440</b> – Square 48 x 48 x 7/8" (Nominal)		<b>5444</b> – Hexagon 48 x 48 x 7/8" (Nominal)		<b>5636</b> – Square – 6" Square cut corner 48 x 48 x 7/8" (Nominal)
	<b>5441</b> – Convex 48 x 48 x 7/8" (Nominal)		<b>5445</b> – Trapezoid 48 x 48 x 7/8" (Nominal)		<b>5448</b> – Small Rectangle 48 x 72 x 7/8" (Nominal)
	<b>5442</b> – Concave 48 x 48 x 7/8" (Nominal)		<b>5635</b> – Square – 6" Radius cut corner 48 x 48 x 7/8" (Nominal)		<b>5449</b> – Large Rectangle 48 x 96 x 7/8" (Nominal)
	<b>5443</b> – Circle 48 x 48 x 7/8" (Nominal)				

♦ NOTE: Add 2-letter color suffix when specifying or ordering (e.g. 5440 W H for square panel in White).  
Concealed hardware with 360° finishing available on all shapes except Hexagon.

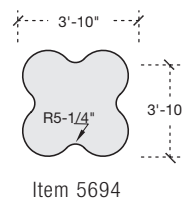
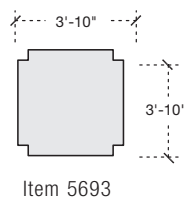
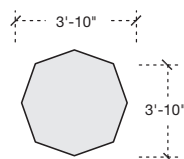
### CUSTOM SHAPES

Create your own shapes!

For assistance, call TechLine at 1 877 276-7876.




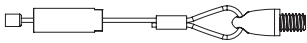
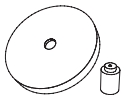
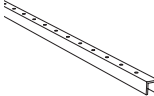
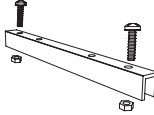

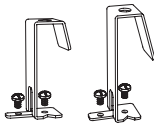
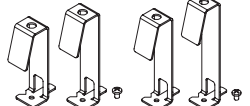
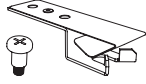
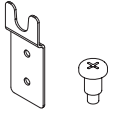
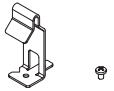
### DESIGN IDEAS



# SOUNDSCAPES® Shapes

## Acoustical Clouds

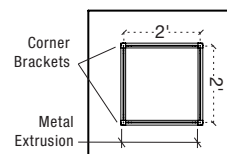
### ACCESSORY KITS Applications always require more than one kit.

Item No. ♦	Description	Kit Contents	
5450	Deck Hanging Kit Allows for suspending individual shapes or grouping frames from deck and bottom end adjustment of height at panel or frame level.	(2) gripper structure anchors (2) gripper structure caps (2) 8' aircraft cables (2) bottom end cable adjusters (2) nuts with washers	
7121	Angled Hanging Kit (60° maximum angle) For use when hanging panels at different angles. Extends from the end of Deck Hanging Kit (5450).	(2) angled hanging cables	
625530	Extended Hanging Cables For use with deck hanging kit when longer cables are needed.	(4) 30' aircraft cables	
7006	Escutcheon Kit Used when hanging panels below an existing ceiling.	(2) collars with setscrews (2) 2" escutcheons	
5451_ _	Grouping Frames Kit Suspension frames used to group panels together.	(4) suspension frames, 12' long, Black (BL) or White (WH)	
5452_ _	Frame Splice Kit Connects group suspension frames for longer runs (> 12 feet).	(2) group frame connectors, 10' long, Black (BL) or White (WH) (4) bolts with washers (4) nuts	
5453	Frame Alignment Kit For use with group suspension frames.	(4) frame alignment spacers, clear plastic (4) bolts (4) nuts with washers	
5454_ _	Panel Hook Kit For use with group frames (one kit per all panels except item 5449, Large Rectangle, which requires two kits).	(2) 4-1/2" high panel hooks, Black (BL) or White (WH) (2) 3-1/2" high panel hooks, Black (BL) or White (WH) (8) bolts	
5629 5630 5631	Multi-plane Hanging Kits For use when hanging panels at heights below Panel Hook Kit (5454).	5629 1" Drop Hook Kit (2) 4-1/2" hooks (2) 5-1/2" hooks (8) screws 5630 2" Drop Hook Kit (2) 5-1/2" hooks (2) 6-1/2" hooks (8) screws 5631 3" Drop Hook Kit (2) 6-1/2" hooks (2) 7-1/2" hooks (8) screws	
5455	Drywall Ceiling Hanging Kit For individual panel attachment to drywall.	(2) drywall clip assemblies (2) shoulder bolts	
5588	Wall Hanging Kit For individual panel attachment to a wall.	(4) clip assemblies (4) shoulder bolts	
5632	Grid Hook Kit For hanging individual panels from a standard suspension system.	(4) hooks (8) screws	

NOTE: Accessory kit hardware is attached to panels via the metal extrusion or corner brackets on the back of each panel. The diagram on the right shows the location of extrusions and corner brackets in the back of a nominal 4' x 4' panel. See installation instructions BPLA-297302 for more details.

If you need assistance identifying what and how many accessory kits are needed for your project, please contact TechLine customer support at 1 877 276-7876.

♦ Indicate desired color using two-digit color code when ordering; BL = Black; WH = White



# SOUNDSCAPES® Shapes

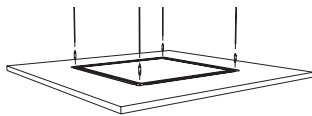
## Acoustical Clouds

### HUNDREDS OF WAYS TO CONFIGURE SOUNDSCAPES® SHAPES PANELS

#### Individual Suspension



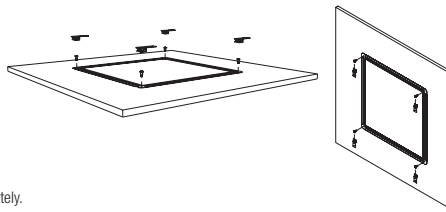
Three Items 5443 in White



#### Individual Attachment to Drywall or Solid Surface



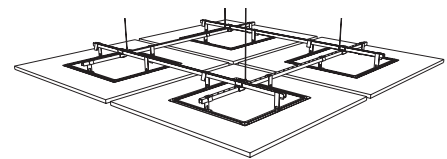
Two Items 5440 and 5448 in Tangerine (upper wall and ceiling)



#### Group Suspension



Items 5441 and 5442 in White



#### ACCESSORY KITS All accessory kits are ordered separately.

Deck Hanging Kit (5450)

Drywall Hanging Kit (5455)  
Wall Hanging Kit (5588)

Deck Hanging Kit (5450)  
Grouping Frames Kit (5451 \_\_ \_\_)  
Frame Alignment Kit (5453)  
Panel Hook Kit (545 \_\_ \_\_)

### PHYSICAL DATA

#### Material

7/8" thick fiberglass with DuraBrite® scrim on face and sides or custom 1-3/4" thick fiberglass with DuraBrite scrim on all sides (360° finishing). To order custom panels, contact TechLine at 1 877 276-7876.

#### Surface Finish

DuraBrite scrim with factory-applied paint on face and sides. Standard White has energy-saving, high light-reflective finish (LR 0.90). Back of panel is unfinished with embedded metal extrusions.

#### Fire Performance

SoundScapes® Shapes panel material is ASTM E84 Class A: Flame Spread 25 or under and Smoke Developed 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

SoundScapes Shapes acoustical clouds, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Consult a fire protection engineer, NFPA 13, and local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

#### ASTM E1264 Classification

Type XII, Form 2, Pattern E

#### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

#### Acoustical Performance

Standard Shapes – 1.18 Sabins/SF; 360° Finished Shapes – 1.47 Sabins/SF; color shapes have slightly reduced acoustical performance.

#### Design Considerations

SoundScapes Shapes acoustical clouds maintain a natural sag that may not be noticeable when installed 6" or less apart. Deflection up to 1/8" has been documented in some cases.

SoundScapes Shapes available with 360° finishing for use in areas where panel back is exposed (can only be installed with included individual suspension).

Special care in installation and handling must be taken with color shapes to avoid surface damage to the paint finish. Custom colors are available.

Custom shapes are available by providing a custom shape drawing within guidelines and sending to TechLine. Call 1 877 276-7876 for assistance.

#### Seismic Restraint

Refer to ASCE 7-10, Section 13.5 Architectural Components for seismic requirements. Section 13.5, item 2 refers to 13.2.3 Consequential Damage.

#### Suspension Systems

SoundScapes Shapes acoustical clouds are pre-assembled with metal extrusions in the back of the panels. Standard accessory kits facilitate quick and easy installation from the deck, through a ceiling, or directly attached to drywall. See Installation Instructions BPLA-297302 for installation details.

#### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

#### Panel Weight

0.63 lbs/SF



**new** TECTUM® Shapes and Clouds

Acoustical Custom Panels  
coarse texture



Tectum® Clouds in custom colors

plus capabilities  
to do more

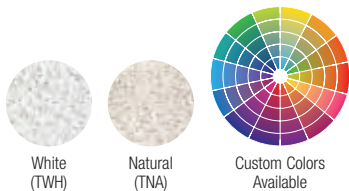
armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

Tectum® Shapes and Clouds deliver design flexibility and acoustical performance in a floating system.

**KEY SELECTION ATTRIBUTES**

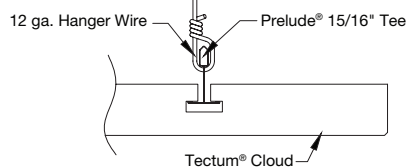
- Floating cloud system in multiple sizes and shapes; custom shapes available
- Noise Absorption up to 0.41 Sabins/SF
- Panel Sizes in 1-1/2" or 2" panel thickness; widths: 23-3/4" to 47-3/4"; lengths: up to 96"
- Available in White, Natural, and custom colors
- Installs with 15/16" Prelude® Suspension System
- Seismically tested
- Square or radius edges

**COLORS** Due to printing limitations, shade may vary from actual product.



Product	Panel Thickness	Acoustics		Weight (Sq. Ft)
		Suspended		
<b>Shapes &amp; Clouds</b>	1-1/2"	NRC 0.50 (Sabins/SF)		2.55 lbs/SF
	2"	—		3.50 lbs/SF

**DETAILS**





# WOODWORKS®

## Accent & Acoustical Canopies

UP TO **92%** RECYCLED CONTENT

For LEED contribution contact TechLine

LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	FSC (for wood)	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	----------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

WITH INFILL PANEL



WoodWorks® Canopies 48" x 96" S-curve in Natural Variations™ Light Cherry finish

These aesthetically pleasing canopies in warm, natural wood veneers offer an acoustical performance when perforated.

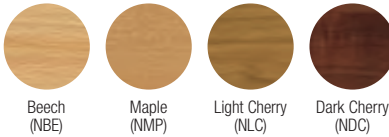
### KEY SELECTION ATTRIBUTES

- Choose from Hill, Valley, or S-curve dual radius canopies
- Adjustable to different heights and angles
- Perforated option available for better acoustics on Hill and Valley canopies
- Concealed mounting hardware for a clean look above and below

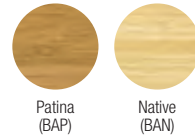
### VENEERS

Due to printing limitations, shade may vary from actual product.

#### Natural Variations™ (Real Wood Veneers)

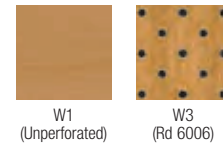


#### Bamboo (Veneer is Rapidly Renewable)



### PERFORATION OPTIONS

(Actual 1:6 scale shown)



NOTE: Rd 6006 perforation on Hill and Valley only. Black fleece adhered to the back of panels for improved acoustics.

### VISUAL SELECTION

Item No. ♦	Description	Shape	Dimensions (Inches)
<b>WOODWORKS® Canopies</b>			
5918_ _ _ _	Hill		72 x 36 x 3/4"
5919_ _ _ _	Valley		72 x 36 x 3/4"
5920_ _ _ _	Hill		96 x 48 x 3/4"
5921_ _ _ _	Valley		96 x 48 x 3/4"
5979_ _ _ _	S-curve		96 x 48 x 7/8"

♦ When specifying or ordering, include the appropriate 5-digit perforation and color suffix (e.g. 5918W1NDC) with the item number.  
NOTE: Suspension cables are shipped with canopies.

### PERFORMANCE

Fire Rating
Class A
Class A
Class A
Class A
Class A

### SUSPENSION COMPONENTS

Description	Color	Pieces/Carton
WoodWorks Canopy Hanging Kit *	Metal	1 kit

\* Each Canopy Hanging Kit includes four hanging assemblies and is shipped with canopy. Use one kit per canopy.

### PHYSICAL DATA

**Material**  
Hill/Valley – fire-retardant particle board with face-cut veneers. S-curve – fire-retardant medium-density fiberboard with face-cut veneers.

**Panel Arc**  
Hill or Valley – 12' radius  
S-curve – 8' radius

**Surface Finish**  
Clear or tinted semigloss coating

**Fire Performance**  
ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.  
CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.  
WoodWorks® Canopies, as with other architectural features located in the ceiling plane, may obstruct or skew the existing or planned fire sprinkler water

distribution pattern, or possibly delay the activation of the fire sprinkler or fire detection system. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and their local codes for guidance on the proper installation techniques where fire detection or suppression systems are present.

**ASTM E1264 Classification**  
Composite – Fire Class A

**Acoustical Performance**  
0.9 Sabins/SF with acoustical fleece.

**Application Considerations**  
Variation among panels may occur due to the natural characteristics of the wood and grain.  
It is very important that WoodWorks panels are climatized prior to installation. Relative humidity between 25% and 55% and temperatures between 50°F and 86°F must be maintained.

**Design Considerations**  
WoodWorks® Canopies are not approved for exterior application. The WoodWorks Canopies cable hanging system must not hang from any commercial ceiling

suspension system. The canopy must not be used to support any other material.  
Concealed hardware (painted black) may be visible.

**Installation Considerations**  
WoodWorks® Canopies require two people to handle and install a panel safely. See installation instructions on web site for details at [armstrongceilings.com/installation](http://armstrongceilings.com/installation).

**Seismic Restraint**  
Refer to ASCE 7-10, Section 13.5 Architectural Components, for seismic requirements. Section 13.5, item 2 refers to 13.2.3 Consequential Damage.

**Suspension System**  
Hardware and 8' cables included in kit.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight/SF**  
Hill or Valley – 2.5 lbs per SF (Bulk packaged)  
S-curve – 3.5 lbs per SF (Bulk packaged)





## You Can Use Acoustical Direct-to-Deck Panels to Enhance Design and Acoustical Performance

Acoustical Direct-to-Deck panels can provide sound absorption for exposed structure spaces.

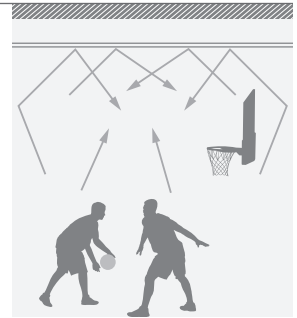
Acoustical absorption is important to:

- Reduce noise levels and reverberation time
- Enhance speech intelligibility

NRC is the term used to measure acoustics for these ceiling forms.

### NRC (Noise Reduction Coefficient)

A measure for rating the overall sound absorption of a material when used in an enclosed architectural space, where sound is reflected at many angles of incidence. A ceiling system with an NRC < 0.50 is considered low performance, whereas one with NRC > 0.70 is considered high performance.

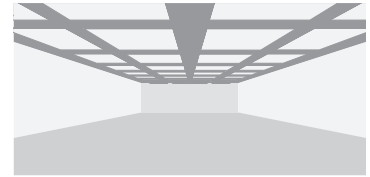


#### Example:

#### Exposed Structure



#### Direct-Attach Tectum



4,800 SF Exposed Structure (80' x 60'), 31' to deck, concrete and brick walls, indoor sports flooring

#### Ceiling

No Treatment  
(0% Coverage)

1" Tectum in C-40 mounting  
(80% Coverage on Ceiling)

#### NRC

0.00

0.85

#### Reverberation Time

5.1 sec

1.4 sec

#### RT Improvement

ref

73%

#### SPL Reduction

ref

-4.3 dB

For definitions of acoustical terms, see pages 546-547 in this catalog.



## Clean + Simple = Sustain®

(Free of chemicals of concern per Living Building Challenge Red List)

(Easy to find)

(Meet today's most stringent industry sustainability standards)

Look for the Sustain® icon on product pages that are part of this portfolio.



# DIRECT- TO-DECK

EXPOSED STRUCTURE – DIRECT-TO-DECK

# DIRECT-TO-DECK CEILING PANELS

## At-a-Glance

you inspire™  
solutions center

helping to bring your one-of-a-kind ideas to life

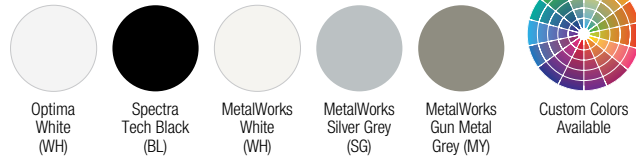
### CAPZ™ PANELS



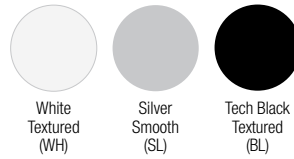
Capz™ – METALWORKS™, Pgs. 119-121  
OPTIMA® & SPECTRA™



#### Panel Color Selection



#### Cap Color Selection Optima® & Spectra® Capz



#### MetalWorks Capz



### TECTUM® PANELS



TECTUM® Direct-Attach Ceiling Panels – Standard Pgs. 124-125



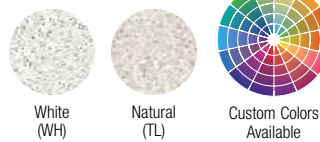
TECTUM® Finale™ High NRC Direct-Attach Ceiling Panels – Custom Pg. 126



TECTUM® Panel Art Direct-Attach Ceiling Panels – Custom Pg. 127



#### Panel Color Selection



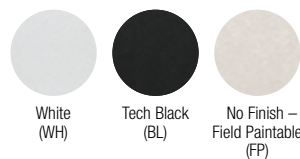
### INVISACOUSTICS™ PANELS



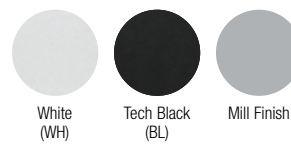
INVISACOUSTICS™ Basics Pg. 122-123B  
Direct-Attach Ceiling Panels – Custom



#### Panel Color\* Selection

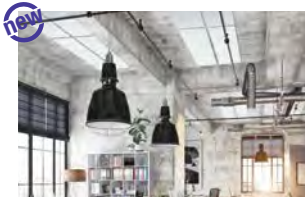


#### Fastener Color Selection



\*NOTE: Ceiling Panels are dye-lotted and should be separated by dye lot. Do not mix.

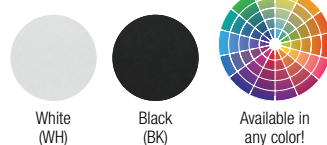
### LYRA® DIRECT APPLY PANELS



LYRA® Direct Apply Ceiling Panels – Custom Pg. 123C-D



#### Panel Color\* Selection



### ICON KEY

Icons are used throughout the catalog to help you quickly identify key products with high level of performance.

#### High Acoustics

Product has NRC (Noise Reduction Coefficient) 0.70 or greater.

#### Fire Performance Class A

#### Seismic

Category D, E & F

#### Light Reflectance

Light reflectance of 0.83 or greater.

#### BioBlock®

Resists the growth of mold and mildew

#### Humidity/Sag Resistance HumiGuard® Plus

Recommended for areas subject to high humidity up to but not including standing water or outdoor applications.

#### High Durability

##### Washability

Offers superior wash resistance without compromising panel finish integrity.

##### Scrubability

Product is scrubable. See specific info on product page.

##### Impact Resistance

Excellent resistance to surface impact.

##### Scratch Resistance

Excellent resistance to surface scratching, scuffing, or chipping as per Hess Rake Test.

##### Soil Resistance

Excellent resistance to dirt and/or grease for lasting value and performance.

##### Color Availability

Available in color.

##### Sustainability

Product is part of Sustain® Portfolio and meets the most stringent sustainability compliance standards today.

Product is manufactured with a plant-based binder.

Product is recyclable through the Armstrong Ceilings Recycling Program.

# Capz™ METALWORKS™, OPTIMA®, and SPECTRA™

acoustical panels  
medium texture



Optima® Capz™ 48" x 96" panels with White caps



armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

The sleek Capz™ system pairs accent hardware with a variety of acoustical panels.

## KEY SELECTION ATTRIBUTES

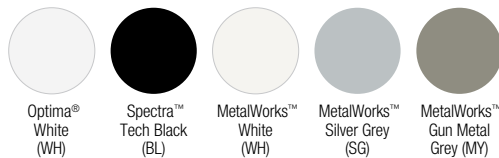
- Noise is absorbed on both the front and back of panels (Optima® and Spectra™)
- Panel options: Optima, Spectra, MetalWorks™
- High light reflectance 0.90 (Optima and MetalWorks white panels)
- Easy alignment suspension system
- Panels can be designed in long runs or grouped based on the acoustical needs of the space.
- MetalWorks panels feature:
  - ExpanTech™ technology for larger MetalWorks panel sizes with 10 times less deflection than standard large-size metal panels (without the use of panel stiffeners)

- Durable – Washable, Scrubbable, Impact-, Soil-resistant
- Custom colors available.

## TYPICAL APPLICATIONS

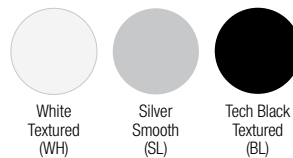
- Exposed structure
- Drywall spaces requiring acoustical correction
- Painted decks
- Capz panels can be installed: directly to the deck, on drywall, or suspended like a continuous ceiling

## PANEL COLOR SELECTION



## CAP COLOR SELECTION

### Optima® & Spectra™ Capz



### MetalWorks™ Capz



NOTE: Coordinating cap colors.

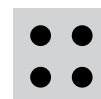
## DETAIL



1. Optima® Capz™ White
2. Spectra™ Capz™ Tech Black
3. MetalWorks™ Capz™

## METALWORKS™ CAPZ™ PANEL PERFORATION OPTIONS

(Actual 1:1 scale shown)



M10  
(Rg 2513)

NOTE: MetalWorks™ Capz™ panels have a 1/2" unperforated border. Refer to hand sample for visual.



# Capz™ OPTIMA® and SPECTRA™

acoustical panels  
medium texture

UP TO **71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengene](http://armstrongceilings.com/greengene)

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

## VISUAL SELECTION

Edge Profile	Item No. ♦	Dimensions (Inches)
	<b>OPTIMA® and SPECTRA™ Capz™ Reverse Regular</b>	
	<b>3934</b> __	24 x 48 x 7/8"
	<b>3935</b> __	24 x 60 x 7/8"
	<b>3930</b> __	24 x 72 x 7/8"
	<b>3931</b> __	24 x 96 x 7/8"
	<b>3936</b> __	36 x 36 x 7/8"
	<b>3932</b> __	48 x 48 x 7/8"
	<b>3933</b> __	48 x 96 x 7/8"

## Size Capabilities

**1 CTN MIN**  
**Made-to-Order Sizes (3 Wks)**

Width	Length
<b>7/8" Thick</b>	
12" – 48"	12" – 120"

♦ When specifying or ordering, include the appropriate 2-letter suffix (e.g., 3934 **W H**) for Optima White; 3934 **B L** for Spectra Tech Black; 64901M10 **W H** for MetalWorks.

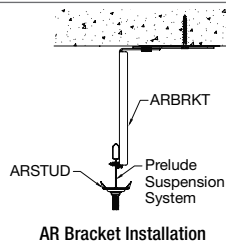
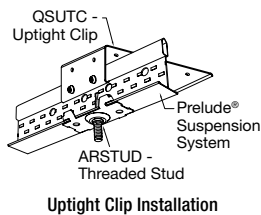
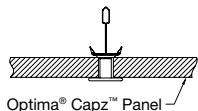
## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$\$\$

Acoustics	Light Reflect	Fire Rating	Mold & Mildew Protection	Sag Resist	Wash	Scrub	Impact	Scratch	Soil	Recycled Content	Recycle
NRC	(White Only)	Inherent	Humi-Guard+	Durability							
0.90	0.90	Class A	•	•	•	•	•	•	•	•	•
0.90	0.90	Class A	•	•	•	•	•	•	•	•	•
0.90	0.90	Class A	•	•	•	•	•	•	•	•	•
0.90	0.90	Class A	•	•	•	•	•	•	•	•	•
0.90	0.90	Class A	•	•	•	•	•	•	•	•	•
0.90	0.90	Class A	•	•	•	•	•	•	•	•	•
0.90	0.90	Class A	•	•	•	•	•	•	•	•	•
N/A	0.90	Class A	•	•	•	•	•	•	•	•	•

## OPTIMA® Capz™



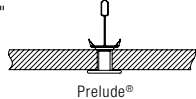
## CAPS



Caps for Optima® or Spectra™ (ARCAP\_\_\*)♦

## SUSPENSION SYSTEMS

15/16"



## ACCESSORIES



Adjustable Hanger Bracket (ARBRKT)



Rigid Attachment Clip (QSUTC)



Cross Tee Plug Clip (ARPLUG)



Threaded Stud (ARSTUD)



Clip (STAC)

## PHYSICAL DATA

### Material

Optima® – fiberglass with a DuraBrite® acoustically transparent scrim. Spectra Tech Black – fiberglass with an acoustically transparent scrim.

### Surface Finish

Optima® White – a DuraBrite finish with factory-applied latex paint providing superior light reflectance. Spectra Black – a factory-applied latex paint.

### Fire Performance

Optima®/Spectra™ – ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less.

Smoke Developed Index 50 or less. (UL labeled)

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Panel Deflection

Capz™ panels will naturally deflect due to the Capz™ four-point (or more) suspension system. Deflection of up to 1/8" has been documented in some cases. Panels should not be installed perpendicular to each other due to varying degrees of deflection.

### Design Considerations

Color coordinated caps will be visible when installed with the selected Capz panel.

### Installation Considerations

In situations where all suspension points cannot be used, follow our technical guide BPCS-3939 for recommendations.

Panels are installed directional and are marked on the back with arrows. Suspension system may be visible at panel intersection. Consider using coordinating Prelude® 15/16" suspension system. Panels may be stacked in layers. Panels may be installed on a slope using guidelines found in installation instructions BPLA-297435.

### Warranty

Optima® Capz™ & Spectra™ Capz™ – 10 year Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Square Feet/Carton

3930, 3936 – 0.56 lbs/SF; 72 SF/ctn  
3935 – 0.56 lbs/SF; 80 SF/ctn  
3931, 3934 – 0.56 lbs/SF; 96 SF/ctn  
3932 – 0.56 lbs/SF; 64 SF/ctn  
3933 – 0.56 lbs/SF; 128 SF/ctn

### Minimum Order Quantity

1 carton (Optima® and Spectra™ panels only)



# Capz™ METALWORKS™

acoustical panels  
smooth texture

90% RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie



LOCATION DEPENDENT

## VISUAL SELECTION

Edge Profile      Item No. ♦      Dimensions (Inches)

### METALWORKS™ Capz™ Standard Sizes

	<b>64901M10</b> __	48 x 48 x 9/16" (1 pc carton)
	<b>64902M10</b> __	48 x 48 x 9/16" (2 pc carton)

### METALWORKS™ Capz™ Premium Sizes\*

	<b>64780M10</b> __	24 x 48 x 9/16"
	<b>64790M10</b> __	24 x 60 x 9/16"
	<b>64910M10</b> __	24 x 72 x 9/16"
	<b>64920M10</b> __	24 x 96 x 9/16"
	<b>64930M10</b> __	36 x 36 x 9/16"
	<b>64940M10</b> __	48 x 96 x 9/16"

♦ When specifying or ordering, include the appropriate 2-letter suffix (e.g., 64901M10 **WH** for MetalWorks White).  
\* Minimum order quantities and extended lead times may apply. † With fiberglass infill 8200T10.

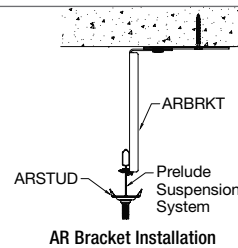
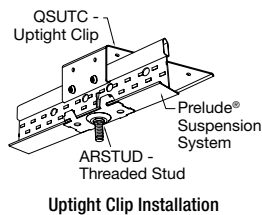
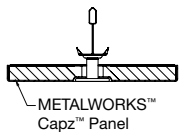
## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$\$\$

Acoustics	Light Reflect (White Only)	Fire Rating	Mold & Mildew Protection	Sag Resist (Humi-Guard+)	Wash	Scrub	Impact	Scratch	Soil	Recycled Content	Recycle
0.90†	0.61	Class A	•	•	•	•	•	•	•	•	•
0.90†	0.61	Class A	•	•	•	•	•	•	•	•	•
0.90†	0.61	Class A	•	•	•	•	•	•	•	•	•
0.90†	0.61	Class A	•	•	•	•	•	•	•	•	•
0.90†	0.61	Class A	•	•	•	•	•	•	•	•	•
0.90†	0.61	Class A	•	•	•	•	•	•	•	•	•

## METALWORKS™ Capz™



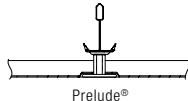
## CAPS



CAPS for MetalWorks (5487 \_\_ \_)

## SUSPENSION SYSTEMS

15/16"



## ACCESSORIES



Adjustable Hanger Bracket (ARBRKT)



Rigid Attachment Clip (QSUTC)



Cross Tee Plug Clip (ARPLUG)



Threaded Stud (ARSTUD)



Clip (STAC)

## PHYSICAL DATA

### Material

MetalWorks™ – aluminum composite – 0.57" thick.

### Surface Finish

Optima® White – a DuraBrite® finish with factory-applied latex paint providing superior light reflectance. Spectra Black – a factory-applied latex paint. MetalWorks – factory-applied powder-coated finish (post-coated).

### Fire Performance

MetalWorks™ – ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### VOC Emissions (MetalWorks™ only)

Third-party certified compliant with California Department of Public Health CDPH/EHLB/ Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED®, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Panel Deflection

Capz™ panels will naturally deflect due to the Capz™ four-point (or more) suspension system. Deflection of up to 1/8" has been documented in some cases. Panels should not be installed perpendicular to each other due to varying degrees of deflection.

### Design & Installation Considerations

In situations where all suspension points cannot be used, follow our technical guide BPCS-3939 for recommendations.

Panels are installed directional and are marked on the back with arrows. Suspension system may be visible at panel intersection. Consider using coordinating Prelude® 15/16" suspension system. Panels may be stacked in layers. Panels may be installed on a slope using guidelines found in installation instructions BPLA-297435.

### Warranty

MetalWorks™ Capz™ – 1 year  
Details at armstrongceilings.com

### Weight: Square Feet/Carton

MetalWorks™ – 1 lb/SF

**new** INVISACOUSTICS™

Acoustical Panels  
smooth texture



InvisAcoustics™ 24" x 48" panels

Smooth-textured, hidden acoustical solution that installs direct-to-deck multiple ways while maintaining exposed structure designs and reducing noise.

**KEY SELECTION ATTRIBUTES**

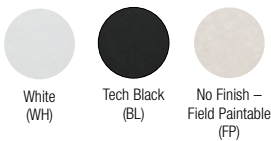


- Now you can install InvisAcoustics™ panels direct-to-deck multiple ways using:
  - Recommended adhesive
  - Hat channel
  - Furring strips
  - Armstrong® Drywall Grid
- InvisAcoustics Wall installation – 6' from the ground or higher
- Good acoustical absorption – NRC up to 0.75
- Install InvisAcoustics panels on Trusses and I-Beams for added acoustics while maintaining an exposed structure visual on the deck
- InvisAcoustics panels are part of the Sustain® portfolio and meet the most stringent sustainability compliance standards today (white and field paintable panels only)
- Field paintable panels can be sprayed same color as deck
- Smooth, clean durable finish –
  - Scratch-resistant
  - Soil-resistant
- Panels cut easily to fit into any space
- Foolproof, "all-in-one" fastener allows for easy installation to the wall, deck, or I-beam without the danger of over-driving and damaging the panel

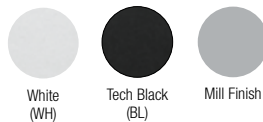
**TYPICAL APPLICATIONS**

- Exposed structure
- Open plenum offices
- Painted decks
- Drywall spaces requiring acoustical correction
- Retail
- Hospitality

**PANEL COLOR\* SELECTION**



**FASTENER COLOR SELECTION**



\*NOTE: Ceiling Panels are dye-lotted and should be separated by dye lot. Do not mix.

**DETAILS** (See details online).



1. InvisAcoustics™ panel





**Declare**<sup>SM</sup>  
Living Building  
Challenge Compliant  
(Excluding 1212BL)

**SUSTAIN**<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO **84%** RECYCLED CONTENT

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**VISUAL SELECTION**

Edge Profile	Item No.	Dimensions (Inches)
	<b>1212WH</b>	24 x 48 x 3/4"
	<b>1212BL*</b>	24 x 48 x 3/4"
	<b>1212FP</b>	24 x 48 x 3/4"

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
\* Tech Black is not included in the Sustain® portfolio

**PERFORMANCE SELECTION** Dots represent high level of performance.

	Fire Rating	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycle Program	10-Yr Warranty
	(White Only)	BioBlock	Humi-Guard+	Durability							
Class A	N/A	•	•	•	N/A	•	•	•	•	•	•
Class A	N/A	•	•	•	N/A	•	•	•	•	•	•
Class A	N/A	•	•	•	N/A	•	•	•	•	•	•

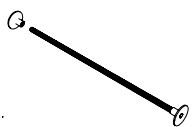
**ACOUSTICAL INFORMATION**

Panel Thickness	NRC	Mounting Method
3/4"	0.75	D-20
3/4"	0.70	A

**ACCESSORIES**



Wall, Deck, and I-Beam – “All-in-One” self-stopping fastener  
Mill Finish (1221)  
Colors (1221\_ )  
Fasteners must be ordered separately  
100pcs/ctn



Truss Fastening Kit  
Mill Finish (1222)  
Colors (1222\_ )  
Kit must be ordered separately  
20pcs/ctn

**ACCESSORIES – BY OTHERS**



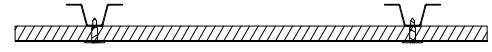
Recommended Adhesive – Titebond® GREENchoice Acoustical Ceiling Tile Adhesive

**INSTALLATION DETAILS**

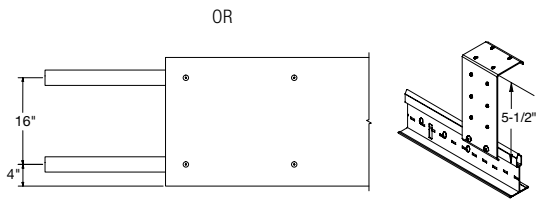
**Wall, Deck, or I-Beam**



InvisAcoustics™ Field Paintable 24" x 48" Panels



Wall, deck, or I-beam installation using hat channel /furring (D-20 mounting)



Wall, deck, or I-beam installation using Armstrong® Drywall Grid and uptight clips

NOTE: Installation with Armstrong Drywall Grid and uptight clips allows for a drop of up to 5-1/2" to get around obstructions.

NOTE: For more details, refer to installation instructions at [armstrongceilings.com/invisacoustics](http://armstrongceilings.com/invisacoustics)

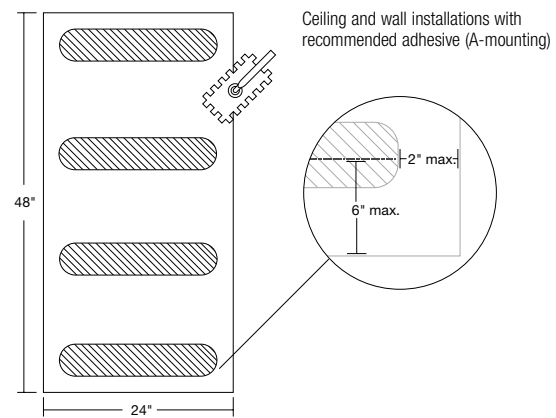


INSTALLATION DETAILS

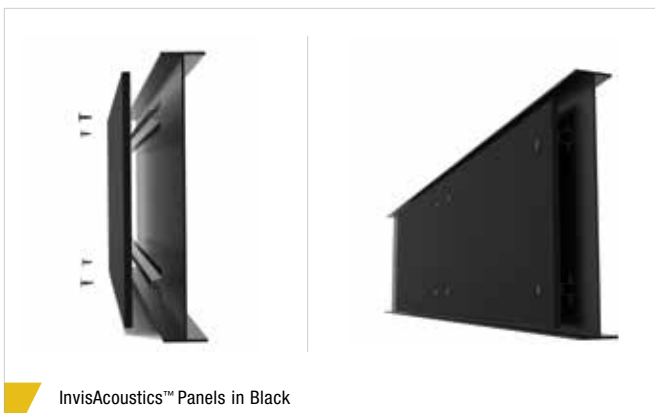
**new** Direct-Apply



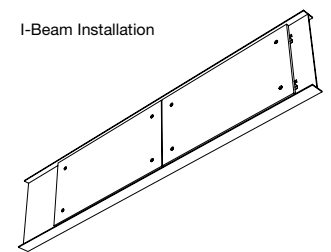
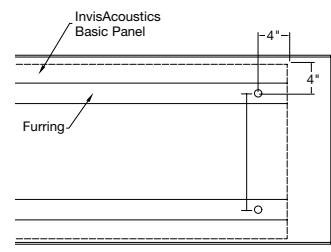
InvisAcoustics™ Direct-Apply Panels in White



I-Beam



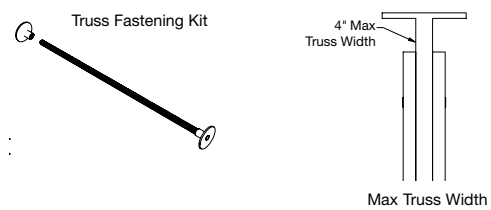
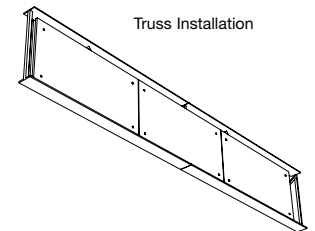
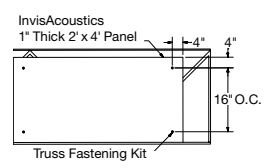
InvisAcoustics™ Panels in Black



Truss



InvisAcoustics™ Panels in Black Truss Installation



NOTE: For more details, refer to installation instructions at [armstrongceilings.com/invisacoustics](http://armstrongceilings.com/invisacoustics)

EXPOSED STRUCTURE – DIRECT-TO-DECK

UP TO **84%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



**PHYSICAL DATA**

**Material**

Wet-formed mineral fiber

**Surface Finish**

Factory-applied latex paint (Items 1212WH, 1212BL)  
Factory-applied scrim (item 1212FP)

**Fire Performance**

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled except field painted panels.)

**ASTM E1264 Classification**

Type IV, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**

Factory-finished panels offer BioBlock® performance and resist the growth of mold and mildew. Mold/mildew performance of unpainted/field painted panels is determined by the type of paint used.

**High Recycled Content**

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Field Painting Considerations**

Recommend Sherwin-Williams® Waterborne Acrylic Dry Fall (B42W1) or substitute Alkali based, flat latex paint with similar properties. Field painting may alter acoustical and fire performance.

**Recommended Spread Rate per Coat:**

Wet Mils: 3.5-5.0  
Dry Mils: 1.5-2.0

**Installation Considerations**

Install using all-in-one screw (1221) on furring. Panels can be butted short edge to short edge or long edge to long edge. Due to directionality, do not butt short edge to long edge. Factory Painted ceiling panels are dye-lotted and should be separated by dye lot. Do not mix. It is recommended to install wall panels at least 6' above finished floor to avoid contact. Avoid applying direct-apply panels to a newly painted ceiling. Glossy painted surfaces must be abraded. For painted or sealed surfaces, install a small test area and observe after 12 hours. For plaster ceilings, plaster must be painted, non-chipping, and smooth.

**Design Considerations**

Factory painted product have short edges that are reverse regular; butting the boards 24" edge to 24" edge will show a notch that will appear to be a 0.450" x 0.385" cutout.

**Acoustical Performance**

0.75 NRC is the acoustical value for D-20 mounting. When using A mounting method for panels, NRC is reduced to 0.70.

**Insulation Value**

R Factor – 3.2 (BTU Units)  
R Factor – 2.9 (Watts Units)

**10-Year Warranty**

System warranty when installed with Armstrong® suspension systems and accessories. Direct-Apply installations have a 10-year panel warranty. Details at [armstrongceilings.com/invisacoustics](http://armstrongceilings.com/invisacoustics).

**Weight; Square Feet/Carton**

1212WH, 1212BL, 1212FP – 1.08lbs/SF; 48 SF/ctn

**Minimum Order Quantity**

1 carton

LEED® is a registered trademark of the U.S. Green Building Council.  
Declare™ is a service mark of The International Living Future Institute.  
Titebond® is a registered trademark of Franklin International.  
Sherwin-Williams® is a registered trademark of The Sherwin-Williams Company.  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates.  
© 2019 AWI Licensing LLC Printed in the United States of America



Lyra® PB Direct Apply

plus capabilities  
to do more

armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

Lyra PB Direct Apply ceiling panels provide sustainable and acoustical options for a wide variety of applications and install direct-to-deck using ceiling adhesive.

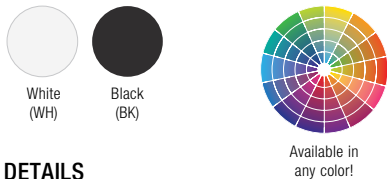
**KEY SELECTION ATTRIBUTES**

- new** Lyra® PB Direct Apply panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- High sound absorption (NRC 0.95)
- Easy installation to ceilings and walls with recommended adhesive to:
  - Corrugated metal ceiling surfaces (D-40 mounting)
  - Drywall, concrete, and plaster (A mounting)
- Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- All items are manufactured with a plant-based binder
- Made-to-order sizes and colors available
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 10-Year Limited Panel Warranty against visible sag, mold, and mildew

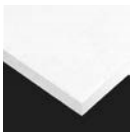
**TYPICAL APPLICATIONS**

- Exposed structure
- Open plenum offices
- Painted decks
- Drywall spaces requiring acoustical correction
- Retail
- Hospitality

**PANEL COLOR SELECTION**



**DETAILS**



Lyra® PB Direct Apply

\$\$\$\$

**VISUAL SELECTION**

Edge Profile	Item No.	Dimensions Nominal W x L x H (Inches)
15/16" Square Lay-in	<b>8400PB</b> <b>8400PBBK</b>	24 x 24 x 1" □
	<b>8401PB</b> <b>8401PBBK</b>	24 x 48 x 1" □
	<b>8402PB</b> <b>8402PBBK</b>	24 x 60 x 1" □
	<b>8403PB</b> <b>8403PBBK</b>	24 x 72 x 1" □
	<b>8404PB</b> <b>8404PBBK</b>	48 x 48 x 1" □

**Size Capabilities\***

Direct Apply	Width	Length	Class	0.88	.	.	.	.	.	.	.	.
1 CTN MIN Made-to-Order Sizes & Colors (3 Wks)	1" Thick		A	0.88	.	.	.	.	.	.	.	.
	12" - 24"	24" - 96"	A	0.88	.	.	.	.	.	.	.	.
	24-1/2" - 48"	24" - 71-1/2"	A	0.88	.	.	.	.	.	.	.	.

**PERFORMANCE SELECTION**

Dots represent high level of performance.

Fire Rating	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycle Program	10-Yr Warranty
Class A	0.88	•	•	•	•	•	•	•	•	•
Class A	0.88	•	•	•	•	•	•	•	•	•
Class A	0.88	•	•	•	•	•	•	•	•	•
Class A	0.88	•	•	•	•	•	•	•	•	•
Class A	0.88	•	•	•	•	•	•	•	•	•

**ACOUSTICAL INFORMATION**

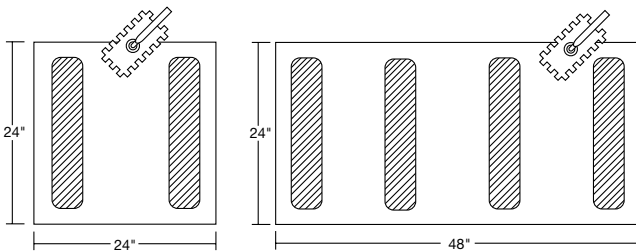
Panel Thickness	NRC	Mounting Method
1"	0.95	D-40
1"	0.80	A

\* Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

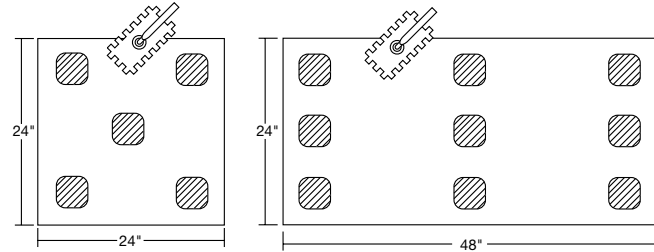
\*Size limitations are based on sizes included in panel warranty using gluing methods listed in installation instructions. Refer to BPLA-299100 installation instructions for more details.

**ADHESIVE – BY OTHERS**

Titebond® GREENchoice Acoustical Ceiling Tile Adhesive



Adhesive lines for D-40 mounting on corrugated metal decking



Adhesive spots for A-mounting on drywall, concrete, and plaster

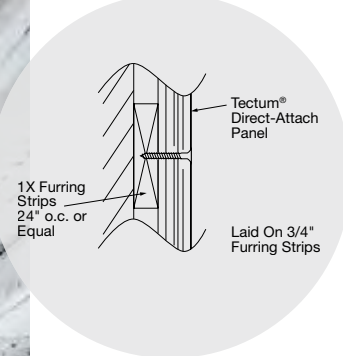
# TECTUM® Direct-Attach

## Acoustical Ceiling Panels

coarse texture



CAD/Revit® drawings at:  
armstrongceilings.com



armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

Tectum® Direct-Attach ceiling panels in White

Tectum® Direct-Attach ceiling panels provide durable, sustainable, acoustical options for a wide variety of applications.

### KEY SELECTION ATTRIBUTES



- Now, long edges beveled, short edges beveled available as a standard option
- Now, 1" panels certified under the Living Product Challenge
- Tectum® 1" panels are part of the Sustain® portfolio and meet the most stringent sustainability standards today
- Durable for heavy-use interiors
- Great retrofit solution for noise reduction
- Excellent noise absorption – NRC up to 0.85
- Can be field painted up to six times without impacting acoustic or fire performance
- Variety of made-to-order color options available
- Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, and more

### TYPICAL APPLICATIONS

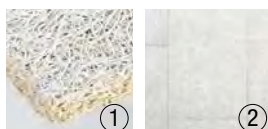
- Gymnasiums
- Auditoriums
- Multi-purpose Spaces
- Exposed Structures
- Acoustical Retrofits
- Education Spaces
- Covered Exterior Applications
- Indoor swimming pools ( 1/2" & 2" thick panels only)

**COLORS** Due to printing limitations, shade may vary from actual product.



Note: Made-to-order and custom color panels and any panels greater than 1" thick are not included in Sustain® portfolio.

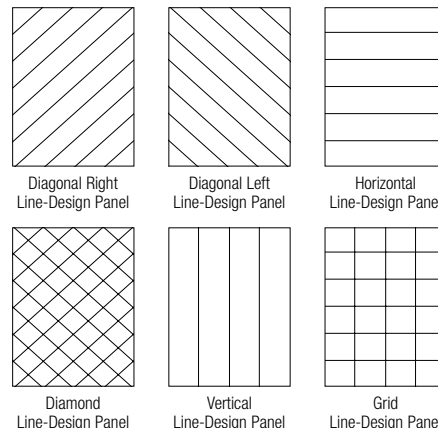
### DETAILS



1. Tectum® Direct-Attach Panel in White
  2. Tectum® Direct-Attach Panels in White
- Note: Panel edges are unfinished.

### LINE DESIGN CAPABILITIES

Available through special order.



# TECTUM® Direct-Attach Acoustical Ceiling Panels coarse texture

Declare<sup>SM</sup>  
Living Product  
Challenge  
Certified



For LEED contribution visit  
armstrongceilings.com/greengenie



## VISUAL SELECTION

Edge Profile	Item No. *	Dimensions Nominal W x L x H (Inches)
<b>TECTUM® Direct-Attach Ceiling &amp; Wall Panels</b>		
Long Edges Beveled/ Short Edges Square	<b>8182T10</b> _ _ _	23-3/4 x 48 x 1"
	<b>8181T10</b> _ _ _	23-3/4 x 96 x 1"
	<b>8180T10</b> _ _ _	47-3/4 x 96 x 1"
<b>new</b> Long Edges Beveled/ Short Edges Beveled	<b>8175T10</b> _ _ _	23-3/4 x 48 x 1"
	<b>8174T10</b> _ _ _	23-3/4 x 96 x 1"
	<b>8173T10</b> _ _ _	47-3/4 x 96 x 1"
<b>Other Size Panels</b>		W 23-3/4" – 48" L: 12" – 144" 1", 1-1/2", or 2" thickness

\* When specifying or ordering, include the appropriate 3-digit color suffix TNA = Natural TWH = White (e.g. 8182T10 T W H)  
Four-sided beveled edge panels are recommended in adjoining panel installation

## PERFORMANCE SELECTION

Dots represent high level of performance.

Fire Rating	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Impact	Scratch	30-Yr Warranty
	(White Only)	BioBlock	Humi-Guard+		Durability		
Class A	Up to 0.75	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•

## ACOUSTICAL INFORMATION

Panel Thickness	NRC	Mounting Method
1"	0.40	A
	0.45	D-20
	0.80	C-20
1-1/2"	0.85	C-40
	0.55	A
	0.60	D-20
2"	0.90	C-20
	0.95	C-40
	0.60	A
	0.70	D-20
	0.95	C-20
	1.00	C-40

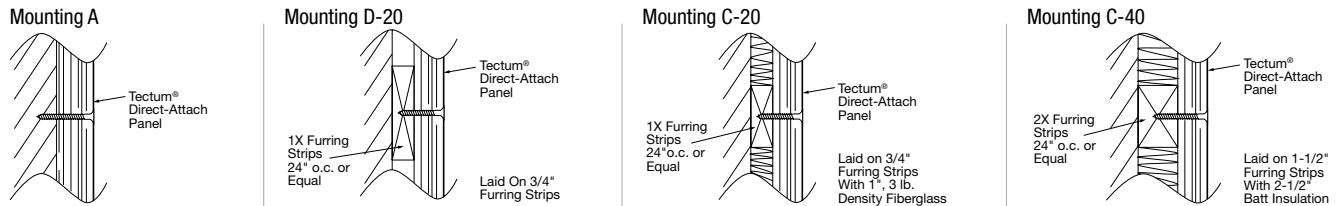
## ACCESSORIES

Item No. *	Description	Quantity
<b>8187L16</b> _ _ _	#6 x1-5/8" Painted Head – Sharp point Screws	1000/ctn
<b>8188L16</b> _ _ _	#6 x1-5/8" Painted Head – Drill point Screws	1000/ctn
<b>8189L22</b> _ _ _	2-1/4" Painted Head – CMU Screws	500/ctn

\* When specifying or ordering, include the appropriate 3-digit color suffix TNA = Natural; TWH = White (e.g. 8187L16 T W H)  
Consult installation instructions for fastener guidance.

NOTE: Projects may require alternative screw lengths and types depending on site conditions. Please consult installation instructions for guidance.

## ACOUSTICAL MOUNTING METHODS



## PHYSICAL DATA

**Material**  
**FSC Certified**  
Cementitious Wood Fiber; FSC®-certified (COC-003601). For more information about FSC®-certified fire-retardant products, or to view our FSC®-certification letter, contact TechLine at 1 877 276 7876.

**Surface Finish**  
Factory-applied latex paint with Silicate surface coating for abuse resistance. Natural is unpainted.

**Fire Performance**  
Class A per IBC. Flame Spread Index 25 or less and Smoke Developed Index 50 or less when tested in accordance with ASTM E84.  
CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less and Smoke Developed Index of 50 or less.

**VOC Emissions**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED®, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Tectum® panels meet CDPH guidelines in enclosed office at 50% wall coverage. View certificate details at [armstrongceilings.com/tectum](http://armstrongceilings.com/tectum).

**Humidity/Sag Resistance**  
HumiGuard® Plus performance panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**Installation Considerations**  
Panels must be mechanically attached to approved substrate per installation instructions. To achieve proper finished visual panels should be installed in an ashlar pattern. Four-sided beveled edge panels are recommended in adjoining panel installations.  
Use caution and wear appropriate hand, eye, and dust mask protection when cutting and installing Tectum® panels. Refer to installation instructions for complete details and cutting recommendations.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**Application Considerations**  
Color variation among panels is common due to the natural characteristics of the wood on White and Natural panels.

Wood fibers may appear orange on Natural colored panels due to the characteristics of the wood.

**Design Considerations**  
For walls that may experience condensation or moisture, such as insulated exterior walls, D- or C- mounting is required to create a gap between the structure and the panel.

**Design Support**  
Project management assistance is available by calling TechLine at 1 877 276 7876.

**Seismic Restraint**  
Tectum Direct-Attach panels are approved for application in all seismic areas when installed per the seismic guidelines in the Armstrong Ceilings Installation Instructions.

**Warranty**  
30-Year Warranty. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight, Pcs and SF/Pallet**  
1" – 1.65 lbs/SF  
1-1/2" – 2.53 lbs/SF  
2" – 3.33 lbs/SF  
8180T10 – 36 pcs/pallet; 1,152 SF/pallet  
8181T10 – 72 pcs/pallet; 1,152 SF/pallet  
8182T10 – 72 pcs/pallet; 572 SF/pallet  
8173T10 – 36 pcs/pallet; 1,152 SF/pallet  
8174T10 – 72 pcs/pallet; 1,152 SF/pallet  
8175T10 – 72 pcs/pallet; 572 SF/pallet

TechLine / 1 877 276 7876  
[armstrongceilings.com/tectum](http://armstrongceilings.com/tectum)

BPCS-5614-918

LEED® is a registered trademark of the U.S. Green Building Council  
Revit® is a registered trademark of Autodesk, Inc.  
Declare™ is a service mark of International Living Future Institute  
FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C., license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates.  
© 2018 AWI Licensing LLC Printed in the United States of America



125

CEILING & WALL SOLUTIONS

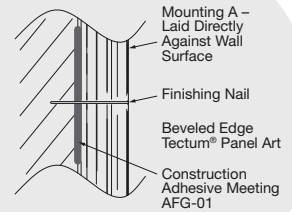


EXPOSED STRUCTURE – DIRECT-TO-DECK

# TECTUM® Finale™

Acoustical Custom Ceiling Panels  
coarse texture

CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



plus capabilities  
to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

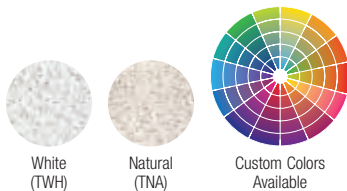
Tectum® Finale™ Ceiling Panels

Tectum® Finale™ high NRC ceilings provide durable, sustainable, acoustical solutions for a wide variety of applications.

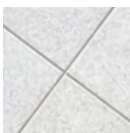
## KEY SELECTION ATTRIBUTES

- Composite panel design combines Tectum® panel and acoustical absorptive material in one for maximum sound control and efficient installation
- Excellent Noise Absorption NRC up to 1.0\* for maximum sound absorption (1" panels)
- Panel sizes in 1", 1-1/2", and 2" thickness; widths: 23-3/4" to 47-3/4"; lengths: 48" to 144"
- Available in White, Natural, and custom colors
- Abuse resistant for active spaces
- Long edges beveled, square ends
- Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, and more

**COLORS** Due to printing limitations, shade may vary from actual product.



## DETAILS



Product	Panel Thickness	Weight (Sq. Ft)	Acoustics	
			A Mounting	NRC
Finale™ Ceiling	1" panel with integral Minwool insert and 1" furring	3.00 lbs/SF	0.75 (Sabins/Sq. Ft.)	0.75
	1-1/2" panel with integral Minwool insert and 1-1/2" furring	3.50 lbs/SF	0.80 (Sabins/Sq. Ft.)	0.80
	2" panel with integral Minwool insert and 2" furring	4.06 lbs/SF	—	—







# TECTUM® Panel Art

Custom Panels  
coarse texture

Declare™  
Third Party Verified  
Living Product  
Imperative  
Certified



Tectum® Panel Art Ceiling Panels

plus capabilities  
to do more

armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

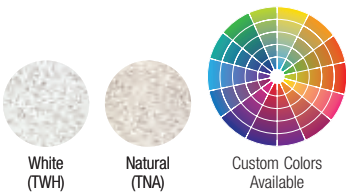
Tectum® Panel Art ceiling panels offer unlimited design flexibility and easy installation.

## KEY SELECTION ATTRIBUTES



- Tectum® panels are Living Product Imperative Certified by the International Living Future Institute – 1" panels in White and Natural only
- Eight shapes and custom options available
- Choose from 1", 1.5", and 2" panel thickness: create your own custom shapes from panels up to 48" x 48"
- Available in White, Natural, and custom colors
- Noise absorption – NRC 0.40 (1" panel)
- Abuse resistant for active spaces
- All panels have beveled edges
- Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, and more

**COLORS** Due to printing limitations, shade may vary from actual product.



Product	Panel Thickness	Weight (Sq. Ft)	Acoustics			
			A Mounting	D-20 Mounting	C-40 Mounting	C-20 Mounting
			NRC	NRC	NRC	NRC
Panel Art Ceiling & Wall Panels	1"	1.63 lbs/SF	0.40	0.45	0.85	0.80
	1-1/2"	2.53 lbs/SF	0.55	0.60	0.95	0.90
	2"	3.30 lbs/SF	0.60	0.70	1.00	0.95

**SHAPES** Examples of custom options



# Create Better Spaces with Total Acoustics®, Sustain® & DESIGNFlex™



**TOTAL ACOUSTICS®**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)

## NRC + CAC = Total Acoustics

Total Acoustics® ceilings have an ideal combination of noise reduction and sound-blocking performance in one panel with a minimum NRC of 0.60 and CAC of 35. Now, whether you're creating a space for quiet concentration, collaboration, or confidentiality, one panel meets the needs for today's flexible spaces. Look for the Total Acoustics® icon on product pages that are part of this portfolio.

EXPOSED STRUCTURE OPEN OFFICE (Used for focus and collaboration)		Continuous Ceiling Suspended 60" Below Deck (100% Coverage)							
		Ultima® High NRC Panels		Calla® Panels		Optima® Panels			
5,000 SF Exposed Structure (50' x 100'), 15' to deck, drywall with windows on two sides, commercial carpet (8' x 8' work station & RC35)		No Treatment Exposed Structure (0% Coverage)		Total Acoustics	NRC + CAC	Total Acoustics	NRC + CAC	Total Acoustics	NRC + CAC
<b>NRC</b>	0.00	0.80	0.85	0.90					
<b>CAC</b>	0	35	35	26					
<b>Total Acoustics</b>	–	<b>BEST</b>	<b>BEST</b>	–					
<b>Reverberation Time</b>	3.4 sec	0.6 sec	0.6 sec	0.5 sec					
<b>RT Improvement</b>	ref	82%	82%	86%					
<b>SPL Reduction</b>	ref	-5 dB	-6 dB	-6 dB					
<b>Privacy Index (60" partition height)</b>	48%	59%	60%	61%					
CLOSED OFFICE USED FOR PRIVACY (14' x 14', drywall, carpet) (RC30)		Continuous Ceiling Suspended 60" Below Deck (100% Coverage)							
		Ultima® Panels		Ultima® High NRC Panels		Calla® Panels			
Drywall Ceiling Suspended 60" Below deck (100% Coverage)		Total Acoustics	NRC + CAC	Total Acoustics	NRC + CAC	Total Acoustics	NRC + CAC	Total Acoustics	NRC + CAC
<b>NRC</b>	0.00	0.75	0.80	0.85					
<b>CAC</b>	50	35	35	35					
<b>Total Acoustics</b>	–	<b>BETTER</b>	<b>BEST</b>	<b>BEST</b>					
<b>Reverberation Time (RT)</b>	1.3 sec	0.5 sec	0.4 sec	0.4 sec					
<b>Privacy Index</b>	98%	98%	98%	97%					

For definitions of acoustical terms, see Pgs. 546-547 in this catalog.



**SUSTAIN®**  
High Performance Sustainable Ceiling Systems

## Clean + Simple = Sustain®

(Free of chemicals of concern per Living Building Challenge Red List) (Easy to find) (Meet today's most stringent industry sustainability standards)

Sustain® ceiling systems contribute to better spaces. Here's how:

- Are free of Red List Chemicals per the Living Building Challenge 3.0 (including no added formaldehyde)
- Have Health Product Declarations (HPDs) which tell you what's in the products
- Have Environmental Product Declarations (EPDs) which tell you the impact of the products on the environment
- Have Declare® labels (easy reference "nutrition labels")

- Meet California Department of Public Health (CDPH) low emissions standards

Contribute to:

- Living Building Challenge Standards (see details, Pgs. 542-543)
- WELL Building Standard (see details, Pgs. 540-541)
- LEED v4 (including New Materials and Resources credits) (see details, Pgs. 538-539)

Look for the Sustain® icon on product pages that are part of this portfolio.

## DESIGNFlex™ Ceiling Systems

Reinvent your ceiling with panels in shapes and sizes in your choice of colors, ready to ship in 3 weeks\*. Includes Calla®, Lyra®, Optima®, Ultima®, and MetalWorks™. Visit our online pattern gallery at: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery) to see designs of patterns, palettes, and capabilities today! Look for the DESIGNFlex™ icon on product pages that are part of this portfolio.

\*MetalWorks™ Shapes panels ship in 4-5 weeks depending on color selection



**DESIGNFlex™**  
A New World of Choice for Ceiling Systems

DESIGNFlex™



# DESIGN- FLEX

DESIGNFLEX™

DESIGNFLEX™ SHAPES PANELS For Color or Finish options, refer to individual product pages listed.



DESIGNFlex™ Pgs. 133A-D  
for FORMATIONS™



CALLA® Shapes Pgs. 134-137



LYRA® Shapes Pgs. 138-141



OPTIMA® Shapes Pgs. 144-147



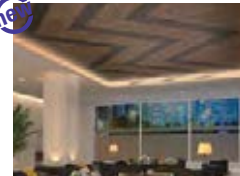
ULTIMA® Shapes Pgs. 148-151



METALWORKS™ Shapes Pgs. 154-157



METALWORKS™ Shapes for DESIGNFlex™ Tegular



WOODWORKS® Shapes for DESIGNFlex™





ICON KEY


Icons are used throughout the catalog to help you quickly identify key product attributes.


High Acoustics

Total Acoustics®


 Product has both NRC of 0.60 or greater and CAC of 35 or higher.

 Product has NRC (Noise Reduction Coefficient) 0.70 or greater.

 Product has CAC (Ceiling Attenuation Class) of 35 or higher.

 Product has AC (Articulation Class) 170 or greater.


Fire Performance

 Fire Guard™/Fire Resistive products tested in specific UL floor/ceiling or roof/ceiling design assemblies.


Seismic

 Category D, E & F

High Light Reflectance

 Light reflectance average of 0.83 or greater. White only.

BioBlock®


 Resists growth of mold and mildew. Panels with BioBlock Plus performance also resist odor and stain-causing bacterial growth.

Humidity/Sag Resistance

HumiGuard® Max

 Maximum humidity resistance, including outdoor applications.

HumiGuard Plus


 Superior sag resistance, recommended for areas subject to high humidity, up to standing water and outdoor applications.

Standard


Standard performance, adequate where building is enclosed and the HVAC is continually functioning.

High Durability


Water-Repellent

 Product resists water for 15 minutes allowing proper cleaning for infection control.


Washability

 Offers superior wash resistance without compromising panel finish integrity, using a washability tester as per ASTM D4828.


Scrubability

 Withstands up to 150 scrub cycles using a scrubability tester as per ASTM D2486.


Impact Resistance

 Excellent resistance to surface impact as per striking ball test.

Scratch Resistance

 Excellent resistance to surface scratching, scuffing or chipping as per Hess Rake Test.


Soil Resistance

 Excellent resistance to dirt and/or grease; per simulated air diffuser soiling test.


Plenum Access


 Downward access for panels minimizes panel damage.


Color Availability


 Available in color.

Sustainability

 Product is part of Sustain® Portfolio, meets the most stringent sustainability compliance standards today – White and 13 Sustain® colors only.

 Product has Ceiling-2-Ceiling™ post-consumer recycled content from reclaimed ceilings. Not available in Made-to-Order sizes.

 Product is manufactured with a plant-based binder.

 Product is treated with AirGuard™ coating.

 Product is recyclable through the Armstrong Ceilings Recycling Program.

Relative Pricing

DESIGNFlex™ Ceiling Systems

\$\$\$ Not indicated for DESIGNFlex™ products as pricing is affected by many factors; panel types, sizes, design complexity, color integration. Work with your local Armstrong rep for estimated pricing.

DESIGNFLEX™ MADE-TO-ORDER SQUARE & RECTANGULAR PANELS

Made-to-order square and rectangle sizes are available in one carton minimums; ship 3 weeks from date of order.



CALLA® Pgs. 276-279  
Square Lay-in & Tegular



CALLA® Vector® Pgs. 280-281



LYRA® Pgs. 332-335  
Square Lay-in & Tegular



LYRA® Vector Pgs. 336-337



LYRA® Concealed Pgs. 338-339



OPTIMA® Pgs. 344-353  
Square Lay-in & Tegular



OPTIMA® Vector® Pgs. 354-355



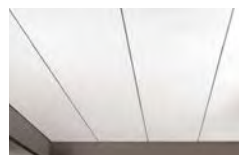
OPTIMA® Pgs. 356-357  
Concealed



OPTIMA® Pgs. 358-361  
Health Zone™  
Square Lay-in & Tegular



ULTIMA® Pgs. 376-383  
Square Lay-in & Tegular



ULTIMA® Vector® Pgs. 384-385



ULTIMA® Pgs. 386-389  
Health Zone™  
Square Lay-in & Tegular

DESIGNFLEX™ SUSPENSION SYSTEMS



PRELUDE® XM Pgs. 158-159



SUPRAFINE® XM Pgs. 160-161



NOTE: Replacement panels may vary slightly in color due to material variations over time. Product could have slight color variation from run to run; adequate attic stock should be ordered.



**DESIGNflex™**  
A New World of Choice  
for Ceiling Systems

# MADE-TO-ORDER SHAPES, PANELS, GRID – Ready to ship in 3 weeks,\* in your choice of colors

## Panel Shapes



Triangles

Parallelograms

Trapezoids

Left Triangles

Right Triangles

Rectangles

Squares

## Panel Materials



Mineral Fiber



Fiberglass



MetalWorks™\*



WoodWorks®\*

## Your Choice of Color!



## DESIGNflex™ Shapes and Made-to-Order Square and Rectangle Panels

The DESIGNflex™ portfolio includes over 94 Shapes panels and an infinite number of made-to-order squares and rectangles in our Calla®, Lyra®, Optima®, Ultima®, Cirrus®, and MetalWorks™ product families. Many DESIGNflex™ products offer Total Acoustics® performance and are part of the Sustain® portfolio.

## Other Made-to-Order Panel Options

You'll also find a wide range of made-to-order square and rectangular options for other mineral fiber and fiberglass panels in this catalog, including: Canyon®, Clean Room™ Fine Fissured™, Dune™, Fine Fissured™, Fissured™, Georgian™, Mesa™, Painted Nubby™, Pebble™, Random Fissured™, Shasta®, and Tundra®. (Pgs. 264-389)

It's all Online: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery)

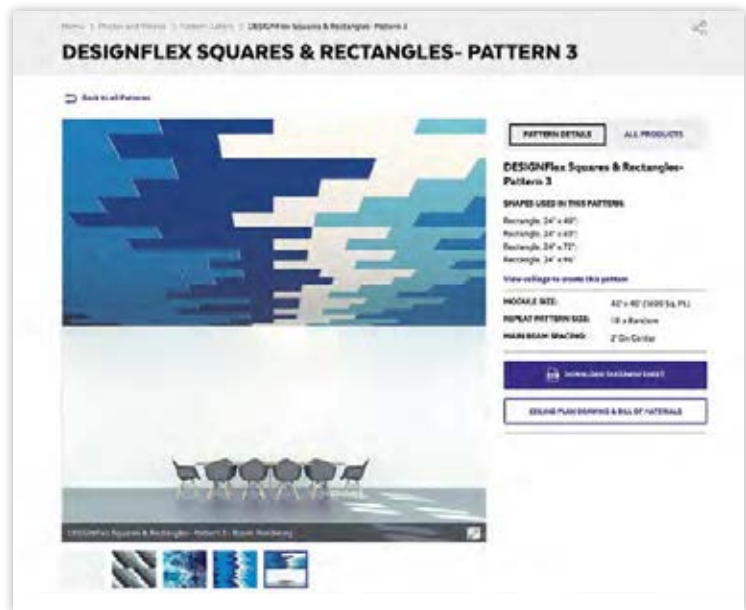
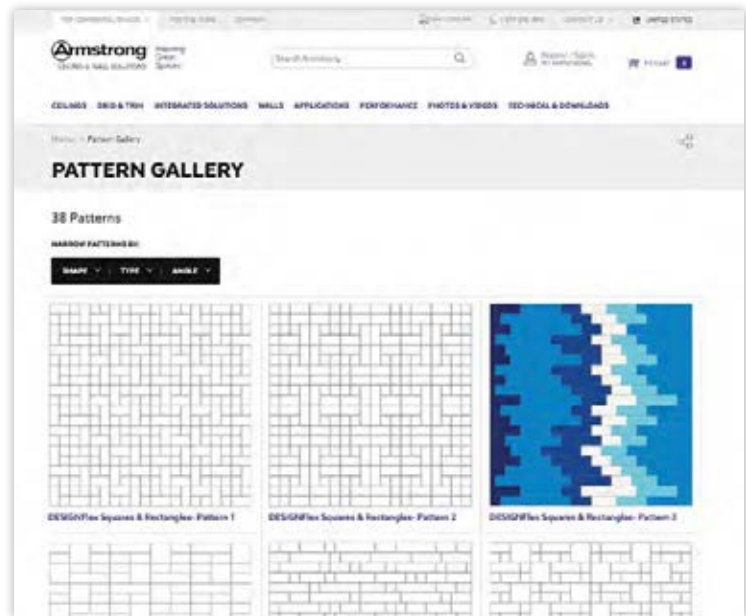
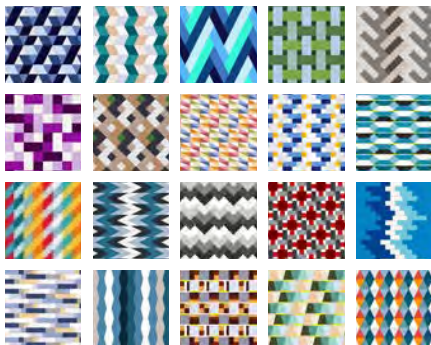
\*MetalWorks™ and WoodWorks® panels will be ready to ship in 4-5 weeks, depending on color selection



# CREATE A DESIGNFLEX™ CEILING SYSTEM™

- 1 **Pick a Pattern**  
See dozens of pre-designed patterns in our pattern gallery or create a layout unique to your project.
- 2 **Add Personality**  
Choose from a variety of color palettes (or create your own!) and mix and match different sizes, shapes, and materials to reinvent your ceiling.
- 3 **Complete Your Vision**  
Add integrated lighting, diffusers, suspension, trims, and accessories. Online, you'll get complete details and a bill of materials for the featured patterns to ease the specification and installation process.

Choose from 30 of our pre-designed patterns or create one!



It's all Online: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery)

# LIGHTING AND MEP INTEGRATION

Shaped lights and diffusers are available through partner companies, or you can use standard modular and pendant fixtures.



- ◀ Our TechZone® lighting partners offer linear lighting as narrow as 4" as well as more traditional lighting options. These fixtures are pre-qualified for fit and finish.



- ◀ Unique shaped infill ceiling panels are available for use with lighting. Axis Geometrix™ lighting fixtures are pre-qualified for fit and finish.
- ◀ Diffusers that complement the module size in your design are available for DESIGNFlex™ layouts. Price® diffusers have been pre-qualified for fit and finish. Shaped infill ceiling panels are available for use with these diffusers.

## Lighting Partners



Kurt Versen

Litecontrol

MARK Architectural Lighting™

Philips



## MEP Partners



- ◀ Additional options include standard industry lighting that complements the module size, or pendant fixtures that hang below ceiling panels.



For Details Visit: [armstrongceilings.com/partners](http://armstrongceilings.com/partners)

**Personalize Your Design!**

Mix and match different sizes, shapes, colors, and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



DESIGNFlex™ for Formations™ Acoustical Cloud

Easy-to-specify and install with pre-cut components in a variety of panel shapes, sizes, and colors with Total Acoustics® and Sustain® performance.

**KEY SELECTION ATTRIBUTES**

- DESIGNFlex™ for Formations™ options include shapes, sizes, and colors in 9 standard cloud kits
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panel options: NRC + CAC = Total Acoustics Performance
- Formations™ Panels, suspension system, and trim are part of the Sustain® portfolio and meet the most stringent sustainability compliance standards today
- DESIGNFlex™ for Formations™ Installation Kits include:
  - Suprafine® XM/XL 9/16" suspension systems installation
  - Axiom® Vector® (Inverted) trim cut to length with factory-mitered corners for crisp-edge detailing
  - Aircraft cable for attachment to structure
  - Axiom splices and T-Bar connectors
- Panels for all Clouds must be ordered separately
  - All clouds feature full size panels, no field-cutting required
  - Shapes and Square/Rectangle panel options available in popular Calla®, Lyra®, Ultima®, and Optima®
- Shaped lighting options available from our DESIGNFlex™ partners – visit [armstrongceilings.com/partners](http://armstrongceilings.com/partners) for more information
- For seismic installations, refer to the DESIGNFlex™ for Formations™ Acoustical Clouds installation instructions – visit [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex) for details

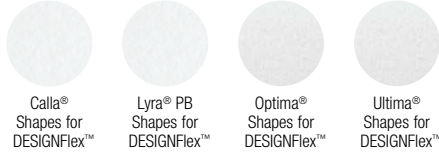


**DESIGNFLEX™ FOR FORMATIONS™ ACOUSTICAL CLOUDS**

**CEILING PANEL OPTIONS**

9/16" Tegular mineral fiber and fiberglass panels only - no metal or wood options available

**DESIGNFlex™ Shapes Panels**



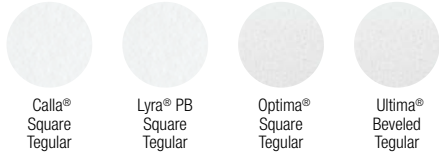
**Calla® & Lyra®**



**Optima® & Ultima®**



**DESIGNFlex™ Squares and Rectangles Panels**



**SELECT YOUR SUSPENSION SYSTEM AND TRIM COLORS**

Due to printing limitations, shade may vary from actual product.

**Suspension System / Axiom® Trim Colors**



**SUSPENSION SYSTEMS – INCLUDED IN KITS**



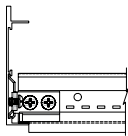
Suprafine® XM for DESIGNFlex™ Shapes  
9/16" Suspension System



Suprafine®  
9/16" Suspension System

**AXIOM® TRIM PROFILE AND HEIGHT**

**Axiom Vector (Inverted)  
Trim for Formations**  
(Lay-in and Tegular panels)



4" and 6" heights

**Axiom® Trim Profile Option**



Tegular panel with inverted  
Axiom® for Formations™ Vector® Trim  
(available in 4", and 6" heights)

Due to suspension system layouts, DESIGNFlex™ for Formations™ clouds will have aircraft cable hanger locations at or near the Axiom® perimeter edge of the cloud.





# DESIGNFlex™ for FORMATIONS™

## Acoustical Clouds

### CLOUD KIT AND PANEL SELECTIONS

#### HOW TO SPECIFY

Based on the cloud size and shape you choose, you need to specify and order:  
1) the suspension and trim kit item number  
2) the panel type and item numbers for the associated cloud selected

DESIGNFlex™ for Formations™ clouds feature 9/16" Suprafine® suspension system and your choice of 4" or 6" high Axiom® Vector® trim inverted.

EXAMPLE:

**DF1208 S4 SP16** \_\_ \_\_  
12' x 8' Suprafine® Shapes Color  
Cloud with 4" pattern Suffix◆  
Size high 16  
Axiom®  
Vector® trim

Also order Calla® Shapes Panels – item 100106

◆ If specifying a color other than White, remember to add the color suffix at the end of the Suspension Kit item number.

#### KIT SELECTION

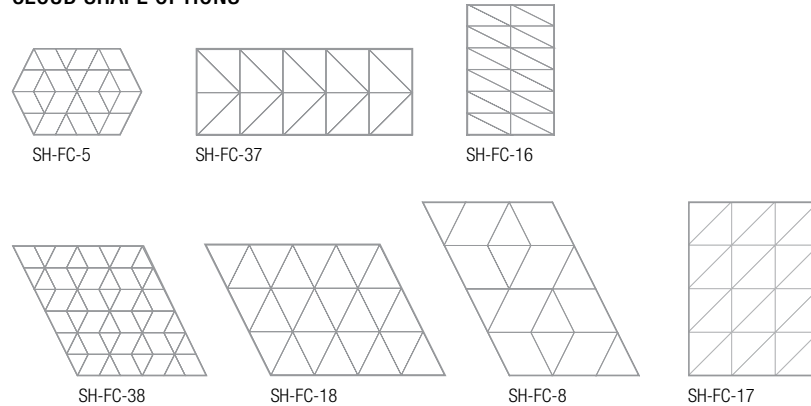
DESIGNFlex™ for Formations Shape Pattern	Nominal Cloud Size (feet)	Item No. ◆ (Axiom® Trim & Suspension System)
<b>Shapes</b>		
SH-FC-5	8' x 8'	<b>DF0808S4SP05</b> __ __ <b>DF0808S6SP05</b> __ __
SH-FC-37	8' x 20'	<b>DF0820S4SP37</b> __ __ <b>DF0820S6SP37</b> __ __
SH-FC-16	12' x 8'	<b>DF1208S4SP16</b> __ __ <b>DF1208S6SP16</b> __ __
SH-FC-38	12' x 12'	<b>DF1212S4SP38</b> __ __ <b>DF1212S6SP38</b> __ __
SH-FC-18	12' x 16'	<b>DF1216S4SP18</b> __ __ <b>DF1216S6SP18</b> __ __
SH-FC-8	16' x 12'	<b>DF1612S4SP08</b> __ __ <b>DF1612S6SP08</b> __ __
SH-FC-17	16' x 12'	<b>DF1612S4SP17</b> __ __ <b>DF1612S6SP17</b> __ __

#### PANEL SELECTION

Ultima® Shapes Panels	Optima® PB Shapes Panels	Calla® Shapes Panels	Lyra® PB Shapes Panels
<b>Item Numbers with Required Ctn Quantities</b>			
Items 100301*, 100313, 100314 (Ctn) 1	Items 100201*, 100215, 100216 (Ctn) 1	Items 100101*, 100114, 100115 (Ctn) 1	Items 100002*, 100016, 100017 (Ctn) 1
–	Item 100208 (Ctns) 2	Item 100108 (Ctns) 4	Item 100009 (Ctns) 2
Item 100306* (Ctns) 2	Item 100206* (Ctn) 1	Item 100106* (Ctns) 2	Item 100007* (Ctns) 1
Item 100301 (Ctns) 3 Item 100313 (Ctn) 1 Item 100314* (Ctn) 1	Item 100201 (Ctns) 3 Item 100215 (Ctn) 1 Item 100216* (Ctn) 1	Item 100101 (Ctns) 3 Item 100114 (Ctn) 1 Item 100115* (Ctn) 1	Item 100002 (Ctns) 3 Item 100016 (Ctn) 1 Item 100017* (Ctn) 1
–	Item 100202* (Ctns) 4	Item 100102* (Ctns) 4	Item 100003* (Ctns) 4
–	Item 100202 (Ctns) 2 Items 100217, 100218 (Ctn) 1	–	Item 100003 (Ctns) 2 Items 100018, 100019 (Ctn) 1
–	Item 100208* (Ctns) 2	Item 100108* (Ctns) 4	Item 100009* (Ctns) 2

\* Cartons required does not include stock or extra panels and is for single color only. For multiple colors, order in full ctn quantities.

#### CLOUD SHAPE OPTIONS



**CLOUD KIT AND PANEL SELECTIONS**

**HOW TO SPECIFY**

Based on the cloud size and shape you choose, you need to specify and order:  
1) the suspension and trim kit item number  
2) the panel type and item numbers for the associated cloud selected

DESIGNFlex™ for Formations™ clouds feature 9/16" Suprafine® suspension system and your choice of 4" or 6" high Axiom® Vector® trim inverted.

EXAMPLE:

<b>DF1608</b>	<b>S4</b>	<b>RP06</b>	--
16' x 8' Cloud Size	Suprafine® with 4" high Axiom® Vector® trim	Squares/ Rectangles Pattern 6	Color Suffix◆

Also order Lyra® PB Panels –  
items: 8356PB, 8361PB, 8357PB

◆ If specifying a color other than White, remember to add the color suffix at the end of the Suspension Kit item number.

**KIT SELECTION**

**DESIGNFlex™**  
**for Formations**  
**Shape Pattern**

**Nominal**  
**Cloud Size**  
**(feet)**

**Item No. ◆**  
(Axiom® Trim &  
Suspension System)

**Squares & Rectangles**

SR-FC-6	16' x 8'	<b>DF1608S4RP06</b> -- <b>DF1608S6RP06</b> --
SR-FC-1	12' x 12'	<b>DF1212S4RP01</b> -- <b>DF1212S6RP01</b> --

**PANEL SELECTION**

**Ultima®**  
**Panels**

**Optima® PB**  
**Panels**

**Calla®**  
**Panels**

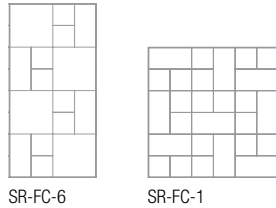
**Lyra® PB**  
**Panels**

**Item Numbers with Required Ctn Quantities**

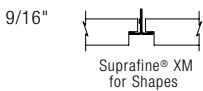
–	Items 3256PB, 3251PB, 3257PB (Ctn) 1	–	Items 8356PB, 8361PB, 8357PB (Ctn) 1
Items 1912, 1915 (Ctns) 2	Item 3251PB (Ctns) 2 Item 3257PB (Ctn) 1	Item 2824*, 2825 (Ctns) 2	Item 8361PB (Ctns) 2 Item 8357PB (Ctn) 1

\* Cartons required does not include stock or extra panels and is for single color only. For multiple colors, order in full ctn quantities.

**CLOUD SHAPE OPTIONS**



**SUSPENSION SYSTEMS**



**PARTNER COMPANIES** For more information on our partner companies, please visit [armstrongceilings.com/partners](http://armstrongceilings.com/partners)

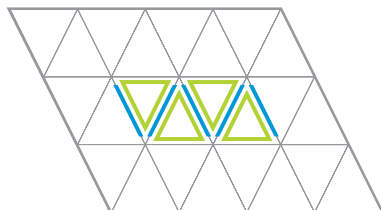
Compatible with:  
Axis Geometrix™ Lighting  
and JLC Tech lighting  
fixtures.



Shaped infill panels are available for applicable lighting fixtures.  
Add **L I N E** to the end of any Shape panel item number to order.  
Metal diffuser infills are available from the diffuser manufacturer.

**LIGHTING CONSIDERATIONS**

The following shows an example layout of where lights can be placed within a DESIGNFlex™ for Formations™ Cloud.



- JLC Tech light fixtures
- Axis light fixtures
- Light fixtures can NOT be installed in areas touching Axiom® Perimeter trim
- JLC TECH light fixtures can only replace cross tees, NOT main runners
- Specify light fixtures compatible with 9/16" Suprafine® XM/XL grid

Tegular  
smooth texture



**TOTAL ACOUSTICS®**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)



**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems



**DESIGNFlex™**  
A New World of Choice  
for Ceiling Systems



SHAPES



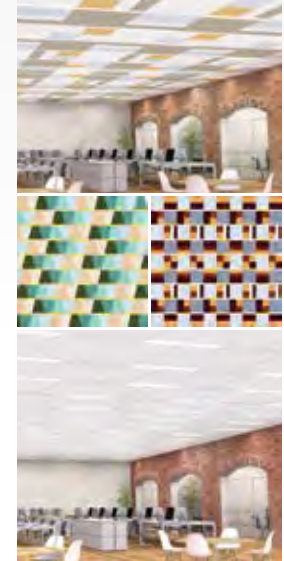
SIZES



COLOR

**Personalize Your Design!**

Mix and match different sizes, shapes, colors, and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



Calla® Shapes panels with Suprafine® XM 9/16" suspension system (Pgs. 160-161)

Smoothest ceiling panels available in shapes, tailor-made sizes, and colors with Total Acoustics® and Sustain® performance. Available to ship in 3 weeks.

**KEY SELECTION ATTRIBUTES**

- DESIGNFlex™ options include shapes, sizes, and colors available to ship in 3 weeks
- Mix and match – Shapes also available with Lyra®, Ultima®, Optima®, and MetalWorks™ panels
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panel options: NRC + CAC = Total Acoustics Performance™
- Calla® panels are part of the Sustain portfolio and meet the most stringent sustainability compliance standards today – White and 13 Sustain® colors only (colors on Pg. 274)
- Light reflectance – 0.86 (white only)
- Shaped lights and diffusers are available from our DESIGNFlex™ partners. Our TechZone® lighting and MEP partners also provide products that are compatible with the DESIGNFlex™ system; other standard modular and pendant fixtures can also be used with this ceiling system
- USDA-Certified Biobased Product – 59%
- Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 10-Year Limited System Warranty against visible sag, mold, and mildew

**COLOR**

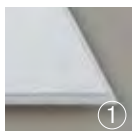


White (WH)



Available in any color!

**DETAILS**



1



2

1. Calla® Shapes Square Tegular
2. Calla® Shapes Square Tegular with Suprafine® XM 9/16" suspension system

Tegular  
smooth texture

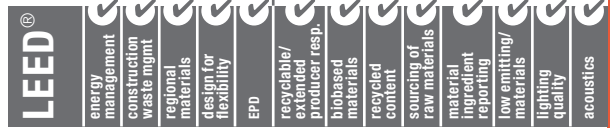
**Declare™**  
Living Building  
Challenge Compliant



**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems

**76%** RECYCLED  
CONTENT

Calculate LEED contribution at  
[armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)



LOCATION DEPENDENT

**Start your design process with a visit to our online pattern gallery at: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery)**

See dozens of pre-designed patterns and colors online in our pattern gallery. We've provided all of the details – from takeoffs showing 2' or 4' on-center spacing to panels, suspension, trims, and accessories. Installation instructions answer questions typically associated with unique ceiling installations. Lighting and air diffusers can also be easily integrated. If you can't find the ceiling pattern you envision for your next space online, call us and we'll help you create a design to personalize your space – 1 877 276-7876.

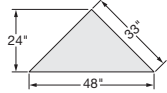


**These 9 Calla® Shapes with Square Tegular edges are available with Suprafine® XM 9/16" suspension:**

**45° SHAPES**

**Triangles**

2' Main Beam Spacing



**100100** Triangle  
24 x 48 x 1"

Total  
Acoustics<sup>1</sup>

$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.80      35      BEST

Right Triangle –  
2' Main Beam Spacing



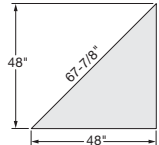
**100107** Right Triangle –  
24 x 24 x 1"

Total  
Acoustics<sup>1</sup>

$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.80      N/A      –

Right Triangle –  
4' Main Beam Spacing



**100108** Right Triangle –  
48 x 48 x 1"

Total  
Acoustics<sup>1</sup>

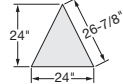
$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.80      35      BEST

**60° SHAPES**

**Triangles**

2' Main Beam Spacing



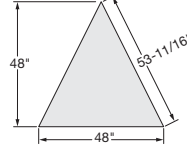
**100101** Triangle  
24 x 24 x 1"

Total  
Acoustics<sup>1</sup>

$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.80      N/A      –

4' Main Beam Spacing



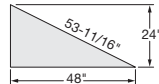
**100102** Triangle  
48 x 48 x 1"

Total  
Acoustics<sup>1</sup>

$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.80      35      BEST

Right Triangle –  
2' Main Beam Spacing

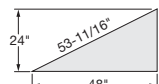


**100105** Right Triangle –  
Left  
24 x 48 x 1"

Total  
Acoustics<sup>1</sup>

$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.80      N/A      –



**100106** Right Triangle –  
Right  
24 x 48 x 1"

Total  
Acoustics<sup>1</sup>

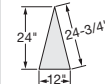
$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.80      N/A      –

**75° SHAPES**

**Triangles**

2' Main Beam Spacing



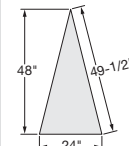
**100103** Triangle  
24 x 12 x 1"

Total  
Acoustics<sup>1</sup>

$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.80      N/A      –

4' Main Beam Spacing



**100104** Triangle  
48 x 24 x 1"

Total  
Acoustics<sup>1</sup>

$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.80      N/A      –

**MORE ITEMS ▶**

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

**PHYSICAL DATA**

**Material**

Wet-formed mineral fiber with acoustically transparent membrane

**Surface Finish**

Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**

Type IV, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

TechLine 877 276-7876

[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)

**Mold/Mildew Protection**

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189, ANSI/GBI Green Building Assessment Protocol.

**High Recycled Content**

Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Seismic Restraint**

Suprafine® XM for Shapes suspension systems have been engineered, tested, and approved for use with DESIGNflex™ Shapes panels for application in all seismic areas when installed per Armstrong® Ceilings installation instructions. For more details, visit [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

PRODUCT CERTIFIED  
FOR LOW CHEMICAL  
EMISSIONS  
[UL.COM/GG](http://UL.COM/GG)  
UL 2618



**Insulation Value**

R Factor – 2.9 (BTU units)  
R Factor – 0.445 (Watts units)

**Design Consideration**

Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**10-Year Performance Guarantee & Warranty**

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Weight; Pieces/ Carton**

100103 – 1.1 lbs/pc; 24 pcs/ctn  
100101 – 2.2 lbs/pc; 12 pcs/ctn  
100107 – 2.2 lbs/pc; 24 pcs/ctn  
100102, 100108 – 8.8 lbs/pc; 6 pcs/ctn  
100100, 100104, 100105, 100106 – 8.8 lbs/pc; 12 pcs/ctn

**Minimum Order Quantity**

1 carton





# CALLA® Shapes for DESIGNflex™

Tegular smooth texture

**GREENGUARD Gold Certified**  
(details below)

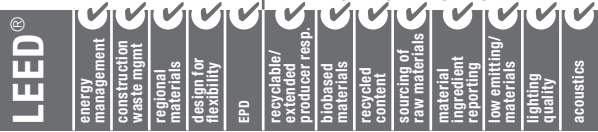


**Declare™**  
Living Building Challenge Compliant

**SUSTAIN®**  
High Performance Sustainable Ceiling Systems

**76%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)



LOCATION DEPENDENT

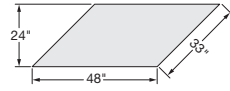
## PANEL OPTIONS (shown in finish view from below ceiling)

These 8 Calla® Shapes with Square Tegular edges are available with Suprafine® XM 9/16" suspension:

### 45° SHAPES

#### Parallelograms

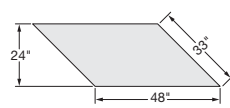
2' Main Beam Spacing



**100112** Right Parallelogram  
24 x 48 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} & + & \text{CAC} \\ \text{0.80} & & \text{35} & & \text{BEST} \end{matrix}$$



**100113** Left Parallelogram  
24 x 48 x 1"

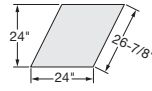
Total Acoustics¹

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} & + & \text{CAC} \\ \text{0.80} & & \text{35} & & \text{BEST} \end{matrix}$$

### 60° SHAPES

#### Parallelograms

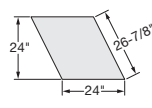
2' Main Beam Spacing



**100114** Right Parallelogram  
24 x 24 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} & + & \text{CAC} \\ \text{0.80} & & \text{35} & & \text{BEST} \end{matrix}$$



**100115** Left Parallelogram  
24 x 24 x 1"

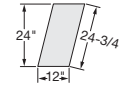
Total Acoustics¹

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} & + & \text{CAC} \\ \text{0.80} & & \text{35} & & \text{BEST} \end{matrix}$$

### 75° SHAPES

#### Parallelograms

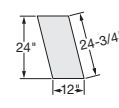
2' Main Beam Spacing



**100116** Right Parallelogram  
24 x 12 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} & + & \text{CAC} \\ \text{0.80} & & \text{N/A} & & - \end{matrix}$$

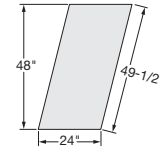


**100117** Left Parallelogram  
24 x 12 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} & + & \text{CAC} \\ \text{0.80} & & \text{N/A} & & - \end{matrix}$$

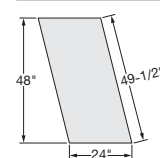
4' Main Beam Spacing



**100118** Right Parallelogram  
48 x 24 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} & + & \text{CAC} \\ \text{0.80} & & \text{35} & & \text{BEST} \end{matrix}$$



**100119** Left Parallelogram  
48 x 24 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} & + & \text{CAC} \\ \text{0.80} & & \text{35} & & \text{BEST} \end{matrix}$$

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## PHYSICAL DATA

### Material

Wet-formed mineral fiber with acoustically transparent membrane

### Surface Finish

Acoustically transparent membrane with factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification

Type IV, Form 2, Pattern E  
Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### High Recycled Content

Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Seismic Restraint

Suprafine® XM for Shapes suspension systems have been engineered, tested, and approved for use

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



with DESIGNflex™ Shapes panels for application in all seismic areas when installed per Armstrong® Ceilings installation instructions. For more details, visit [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

### Insulation Value

R Factor – 2.9 (BTU units)  
R Factor – 0.445 (Watts units)

### Design Consideration

Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

### 10-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

### Weight; Pieces/ Carton

100116, 100117 – 2.2 lbs/pc; 24 pcs/ctn  
100114, 100115 – 4.4 lbs/pc; 12 pcs/ctn  
100112, 100113, 100118, 100119 – 8.8 lbs/pc; 6 pcs/ctn

### Minimum Order Quantity

1 carton

DESIGNflex™ SHAPES

Tegular  
smooth texture

**Declare™**  
Living Building  
Challenge Compliant



**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems

**76% RECYCLED CONTENT**

LEED®

- energy management
- construction waste to reuse
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- low based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

**PANEL OPTIONS** (shown in finish view from below ceiling)

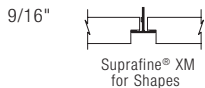
These 3 Calla® Shapes with Square Tegular edges are available with Suprafine® XM 9/16" suspension:

45° SHAPES	Item No.	Description/Dimensions (Inches)	60° SHAPES	Item No.	Description/Dimensions (Inches)	75° SHAPES	Item No.	Description/Dimensions (Inches)
<b>Trapezoids</b>			<b>Trapezoids</b>			<b>Trapezoids</b>		
No Trapezoids available in 45° shapes			<b>2' Main Beam Spacing</b>	<b>100109</b>	Trapezoid 24 x 48 x 1"	<b>2' Main Beam Spacing</b>	<b>100110</b>	Right Parallelogram 24 x 24 x 1"
			<b>Total Acoustics<sup>1</sup></b>			<b>Total Acoustics<sup>1</sup></b>		
			$\text{NRC} + \text{CAC} = \text{NRC} + \text{CAC}$			$\text{NRC} + \text{CAC} = \text{NRC} + \text{CAC}$		
			0.80 + 35 = BEST			0.80 + 35 = BEST		
						<b>4' Main Beam Spacing</b>	<b>100111</b>	Trapezoid 48 x 48 x 1"
						<b>Total Acoustics<sup>1</sup></b>		
						$\text{NRC} + \text{CAC} = \text{NRC} + \text{CAC}$		
						0.80 + 35 = BEST		

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

Suprafine® XM suspension components, trim, and clips can be found on Pgs. 160-161.

**SUSPENSION SYSTEMS**



**PARTNER COMPANIES** For more information on our partner companies, please visit [armstrongceilings.com/partners](http://armstrongceilings.com/partners)

Compatible with:  
Axis Geometrix™ Lighting,  
JLC-Tech FLEX T-BAR LED  
Lights and Price diffusers.



Shaped infill panels are available for applicable lighting fixtures. Add **LINE** to the end of any Shape panel item number to order. Metal diffuser inflills are available from the diffuser manufacturer.

**PHYSICAL DATA**

- Material**  
Wet-formed mineral fiber with acoustically transparent membrane
- Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint
- Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).
- ASTM E1264 Classification**  
Type IV, Form 2, Pattern E  
Fire Class A
- Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.
- Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
[UL.COM/GG](http://UL.COM/GG)  
UL 2818



**High Recycled Content**  
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Seismic Restraint**  
Suprafine® XM for Shapes suspension systems have been engineered, tested, and approved for use with DESIGNflex™ Shapes panels for application in all seismic areas when installed per Armstrong®

Ceilings installation instructions. For more details, visit [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Insulation Value**  
R Factor – 2.9 (BTU units)  
R Factor – 0.445 (Watts units)

**Design Consideration**  
Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**10-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Weight; Pieces/Carton**  
100110 – 3.3 lbs/pc; 12 pcs/ctn  
100109 – 6.6 lbs/pc; 8 pcs/ctn  
100111 – 13.2 lbs/pc; 4 pcs/ctn

**Minimum Order Quantity**  
1 carton



**new** LYRA® Shapes  
for DESIGNFlex™  
with Plant-based Binder  
Tegular  
smooth texture



**DESIGNFlex™**  
CEILING SYSTEMS



**Personalize Your Design!**

Mix and match different sizes, shapes, colors, and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



Lyra® Shapes panels with Suprafine® XM 9/16" suspension system (Pgs. 160-161)

Smoothest fiberglass ceiling panels available in shapes, tailor-made sizes, and colors with Sustain® performance. Available to ship in 3 weeks.

**KEY SELECTION ATTRIBUTES**

- new** • DESIGNFlex™ options include shapes, sizes, and colors available to ship in 3 weeks
- Mix and match – Shapes also available in Calla®, Ultima®, Optima®, and MetalWorks™ panels
- Lyra® panels are manufactured with a plant-based binder and are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today – White and 13 Sustain colors only (colors on Pg. 274)
- Excellent sound absorption – NRC (0.95)
- Light reflectance – 0.88 (white only)
- Shaped lights and diffusers are available from our DESIGNFlex™ partners. Our TechZone® lighting and MEP partners also provide products that are compatible with the DESIGNFlex™ system; other standard modular and pendant fixtures can also be used with this ceiling system
- Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 10-Year Limited System Warranty against visible sag, mold, and mildew

**COLOR**

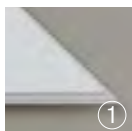


White (WH)



Available in any color!

**DETAILS**



1



2

1. Lyra® Shapes Square Tegular
2. Lyra® Shapes Square Tegular with Suprafine® XM 9/16" suspension system



LOCATION DEPENDENT

Start your design process with a visit to our online pattern gallery at: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery)

See dozens of pre-designed patterns and colors online in our pattern gallery. We've provided all of the details – from takeoffs showing 2' or 4' on-center spacing to panels, suspension, trims, and accessories. Installation instructions answer questions typically associated with unique ceiling installations. Lighting and air diffusers can also be easily integrated. If you can't find the ceiling pattern you envision for your next space online, call us and we'll help you create a design to personalize your space – 1 877 276-7876.



These 9 Lyra® Shapes with Square Tegular edges are available with Suprafine® XM 9/16" suspension:

**45° SHAPES**

**Triangles**

**2' Main Beam Spacing** **100001** Triangle  
24 x 48 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**Right Triangle – 2' Main Beam Spacing** **100008** Right Triangle –  
24 x 24 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**Right Triangle – 4' Main Beam Spacing** **100009** Right Triangle –  
48 x 48 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**60° SHAPES**

**Triangles**

**2' Main Beam Spacing** **100002** Triangle  
24 x 24 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**4' Main Beam Spacing** **100003** Triangle  
48 x 48 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**Right Triangle – 2' Main Beam Spacing** **100006** Right Triangle –  
Left 24 x 48 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**Right Triangle – Right 24 x 48 x 1"** **100007** Right Triangle –  
Right 24 x 48 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**75° SHAPES**

**Triangles**

**2' Main Beam Spacing** **100004** Triangle  
24 x 12 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**4' Main Beam Spacing** **100005** Triangle  
48 x 24 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**MORE ITEMS ▶**

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

**PHYSICAL DATA**

**Material**  
Fiberglass with acoustically transparent membrane

**Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**High Recycled Content**  
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Seismic Restraint**  
Suprafine® XM for Shapes suspension systems have been engineered, tested, and approved for use with DESIGNflex™ Shapes panels for application in all seismic areas when installed per Armstrong® Ceilings installation instructions. For more details, visit [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



**Insulation Value**  
R Factor – 4.4 (BTU units)  
R Factor – 0.76 (Watts units)

**Design Consideration**  
Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**10-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Weight; Pieces/ Carton**  
100004 – 0.4 lbs/pc; 24 pcs/ctn  
100002 – 0.8 lbs/pc; 12 pcs/ctn  
100008 – 0.8 lbs/pc; 24 pcs/ctn  
100001, 100005 – 1.6 lbs/pc; 12 pcs/ctn  
100006, 100007 – 1.6 lbs/pc; 24 pcs/ctn  
100003 – 3.2 lbs/pc; 6 pcs/ctn  
100009 – 3.2 lbs/pc; 12 pcs/ctn

**Minimum Order Quantity**  
1 carton



**LYRA® Shapes**  
for **DESIGNflex™**  
with Plant-based Binder



**GREENGUARD**  
Gold Certified  
(details below)



**Declare™**  
Living Building  
Challenge Compliant

**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems

**71% RECYCLED CONTENT**

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengene](http://armstrongceilings.com/greengene)

LOCATION DEPENDENT

**Tegular**  
smooth texture

**PANEL OPTIONS** (shown in finish view from below ceiling)

These 10 Lyra® Shapes with Square Tegular edges are available with Suprafine® XM 9/16" suspension:

**45° SHAPES**

**Parallelograms**

**2' Main Beam Spacing**

**100014** Right Parallelogram 24 x 48 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**100015** Left Parallelogram 24 x 48 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**60° SHAPES**

**Parallelograms**

**2' Main Beam Spacing**

**100016** Right Parallelogram 24 x 24 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**100017** Left Parallelogram 24 x 24 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**4' Main Beam Spacing**

**100018** Right Parallelogram 48 x 48 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**100019** Left Parallelogram 48 x 48 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**75° SHAPES**

**Parallelograms**

**2' Main Beam Spacing**

**100020** Right Parallelogram 24 x 12 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**100021** Left Parallelogram 24 x 12 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**4' Main Beam Spacing**

**100022** Right Parallelogram 48 x 24 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**100023** Left Parallelogram 48 x 24 x 1"

**Total Acoustics¹**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

**PHYSICAL DATA**

**Material**  
Fiberglass with acoustically transparent membrane

**Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**High Recycled Content**  
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Seismic Restraint**  
Suprafine® XM for Shapes suspension systems have been engineered, tested, and approved for use with DESIGNflex™ Shapes panels for application in all seismic areas when installed per Armstrong® Ceilings installation instructions. For more details, visit [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



**Insulation Value**

R Factor – 4.4 (BTU units)  
R Factor – 0.76 (Watts units)

**Design Consideration**

Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**10-Year Performance Guarantee & Warranty**

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Weight; Pieces/Carton**

100020, 100021 – 0.8 lbs/pc; 24 pcs/ctn  
100016, 100017 – 1.6 lbs/pc; 12 pcs/ctn  
100014, 100015, 100022, 100023 – 3.2 lbs/pc; 12 pcs/ctn  
100118, 100119 – 6.4 lbs/pc; 6 pcs/ctn

**Minimum Order Quantity**

1 carton

DESIGNflex™ SHAPES

Tegular  
smooth texture

PANEL OPTIONS (shown in finish view from below ceiling)

These 4 Lyra® Shapes with Square Tegular edges are available with Suprafine® XM 9/16" suspension:

**45° SHAPES**

**Trapezoids**

2' Main Beam Spacing

**100010** Trapezoid  
24 x 96 x 1"

**Total Acoustics<sup>1</sup>**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**60° SHAPES**

**Trapezoids**

2' Main Beam Spacing

**100011** Trapezoid  
24 x 48 x 1"

**Total Acoustics<sup>1</sup>**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

**75° SHAPES**

**Trapezoids**

2' Main Beam Spacing

**100012** Trapezoid  
24 x 24 x 1"

**Total Acoustics<sup>1</sup>**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

4' Main Beam Spacing

**100013** Trapezoid  
48 x 48 x 1"

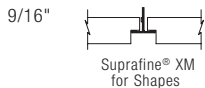
**Total Acoustics<sup>1</sup>**

NRC	+	CAC	=	NRC + CAC
0.95		N/A		-

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

Suprafine® XM suspension components, trim, and clips can be found on Pgs. 160-161.

**SUSPENSION SYSTEMS**



**PARTNER COMPANIES**

Compatible with:  
Axis Geometrix™ Lighting,  
JLC-Tech FLEX T-BAR LED  
Lights and Price diffusers.



Shaped infill panels are available for applicable lighting fixtures. Add **LINF** to the end of any Shape panel item number to order. Metal diffuser inflills are available from the diffuser manufacturer.

**PHYSICAL DATA**

- Material**  
Fiberglass with acoustically transparent membrane
- Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint
- Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).
- ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A
- Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.
- Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**High Recycled Content**  
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Seismic Restraint**  
Suprafine® XM for Shapes suspension systems have been engineered, tested, and approved for use with DESIGNflex™ Shapes panels for application in



all seismic areas when installed per Armstrong® Ceilings installation instructions. For more details, visit [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Insulation Value**  
R Factor – 4.4 (BTU units)  
R Factor – 0.76 (Watts units)

**Design Consideration**  
Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**10-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Weight; Pieces/Carton**  
100012 – 1.2 lbs/pc; 12 pcs/ctn  
100011 – 2.4 lbs/pc; 12 pcs/ctn  
100010, 100013 – 4.8 lbs/pc; 6 pcs/ctn

**Minimum Order Quantity**  
1 carton

TechLine / 1 877 276-7876  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)  
(search: lyrashapes)

BPCS-5806-119

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of The International Living Future Institute  
Price® is a registered trademark of Price Industries Limited. Geometrix™ and Axis are owned by Axis Lighting. UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2018 AWI Licensing LLC  
Printed in the United States of America



**new** OPTIMA® Shapes  
for DESIGNFlex™  
with Plant-based Binder  
Square Lay-in  
fine texture

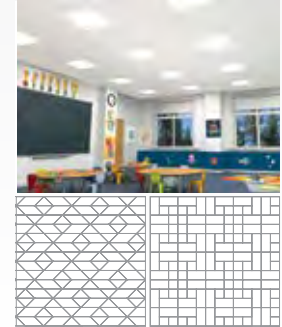


**DESIGNFlex™**  
CEILING SYSTEMS



**Personalize Your Design!**

Mix and match different sizes, shapes, colors and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



Optima® Shapes panels with Prelude® XM 15/16" suspension system

Fine-textured ceiling panels available in shapes and tailor-made sizes with Sustain® performance. Available to ship in 3 weeks.

**KEY SELECTION ATTRIBUTES**

- DesignFlex™ options include shapes and tailor-made sizes available to ship in 3 weeks
- Mix and match – Shapes also available with Calla®, Lyra®, Ultima®, and MetalWorks™ panels
- Optima® panels are manufactured with a plant-based binder and are part of the Sustain® portfolio and meet the most stringent sustainability compliance standards today
- Excellent sound absorption – NRC (0.95)
- Light reflectance – 0.90
- Lighting and MEP integration with TechZone® or with shaped lights and diffusers available through one of our partner companies or with standard modular and pendant lights
- Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 10-Year Limited System Warranty against visible sag, mold, and mildew

**COLOR**



White  
(WH)

**DETAILS**



1. Optima® Shapes Square Lay-in
2. Optima® Shapes Square Lay-in with Prelude® XM 15/16" suspension system



**PLANT  
BASED  
BINDER**

**Declare**™  
Living Building  
Challenge Compliant



**SUSTAIN**™  
High Performance  
Sustainable  
Ceiling Systems

**71% RECYCLED CONTENT**

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

Calculate LEED contribution at  
[armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

Start your design process with a visit to our online pattern gallery at: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery)

See dozens of pre-designed patterns and shapes online in our pattern gallery. We've provided all of the details – from take offs showing on-center spacing to panels, suspension, trims, and accessories. Installation instructions answer questions typically associated with unique ceiling installations. Lighting and air diffusers can also be easily integrated. If you can't find the ceiling pattern you envision for your next space online, call us and we'll help you create a design to personalize your space – 1-877-276-7876.

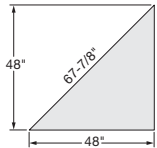


These 8 Optima® Shapes with Square Lay-in edges are available with Prelude® XM 15/16" suspension:

### 45° SHAPES

#### Triangles

Right Triangle –  
4' Main Beam Spacing



Item No. **100231** Right Triangle –  
48 x 48 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} \\ \text{=} \\ 0.95 \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ \text{N/A} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{=} \\ - \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ - \end{matrix}$$

#### Parallelograms

No Parallelograms available in 45° shapes

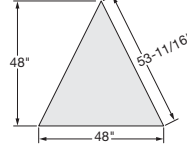
#### Trapezoids

No Trapezoids available in 45° shapes

### 60° SHAPES

#### Triangles

4' Main Beam Spacing



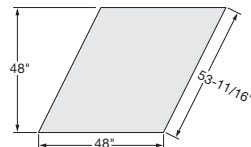
Item No. **100225** Triangle  
48 x 48 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} \\ \text{=} \\ 0.95 \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ \text{N/A} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{=} \\ - \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ - \end{matrix}$$

#### Parallelograms

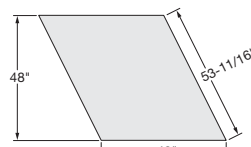
4' Main Beam Spacing



Item No. **100240** Right  
Parallelogram  
48 x 48 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} \\ \text{=} \\ 0.95 \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ \text{N/A} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{=} \\ - \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ - \end{matrix}$$



Item No. **100241** Left  
Parallelogram  
48 x 48 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} \\ \text{=} \\ 0.95 \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ \text{N/A} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{=} \\ - \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ - \end{matrix}$$

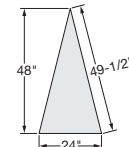
#### Trapezoids

No Trapezoids available in 60° shapes

### 75° SHAPES

#### Triangles

4' Main Beam Spacing



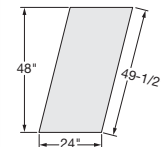
Item No. **100227** Triangle  
48 x 24 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} \\ \text{=} \\ 0.95 \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ \text{N/A} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{=} \\ - \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ - \end{matrix}$$

#### Parallelograms

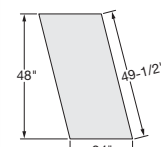
4' Main Beam Spacing



Item No. **100244** Right  
Parallelogram  
48 x 24 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} \\ \text{=} \\ 0.95 \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ \text{N/A} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{=} \\ - \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ - \end{matrix}$$



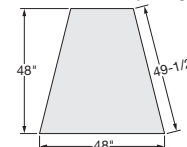
Item No. **100245** Left  
Parallelogram  
48 x 24 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} \\ \text{=} \\ 0.95 \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ \text{N/A} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{=} \\ - \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ - \end{matrix}$$

#### Trapezoids

4' Main Beam Spacing



Item No. **100235** Trapezoid  
48 x 48 x 1"

Total Acoustics¹

$$\begin{matrix} \text{NRC} \\ \text{=} \\ 0.95 \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ \text{N/A} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{=} \\ - \end{matrix} + \begin{matrix} \text{CAC} \\ \text{=} \\ - \end{matrix}$$

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)



**OPTIMA® Shapes**  
for **DESIGNFlex™**  
with Plant-based Binder  
Square Lay-in  
fine texture



**Declare™**  
Living Building  
Challenge Compliant



**71% RECYCLED CONTENT**




Calculate LEED contribution at  
[armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------








LOCATION DEPENDENT

**SUSPENSION SYSTEMS COMPONENTS & ACCESSORIES** System utilizes Prelude® XL® main beams








**45° SHAPES**

Item No.	Description
<b>73AB45L</b>	 Prelude® 45° Left Angle Bracket
<b>73AB45R</b>	 Prelude® 45° Right Angle Bracket
<b>73AB45D</b>	 Prelude® 45° Double Angle Bracket
<b>73CB45</b>	 Prelude® 45° Corner Bracket
<b>XM734548</b>	 Prelude® 45° Base Cross Tee – 48" Main Beam Spacing
<b>XM7348</b>	 Prelude® Perimeter Cross Tee – 48" Main Beam Spacing
<b>PCC</b>	 Axiom® Perimeter Corner Clip
<b>PAC</b>	 Perimeter Angle Clip

**60° SHAPES**

Item No.	Description
<b>73AB60L</b>	 Prelude® 60° Left Angle Bracket
<b>73AB60R</b>	 Prelude® 60° Right Angle Bracket
<b>73AB60D</b>	 Prelude® 60° Double Angle Bracket
<b>XM736048</b>	 Prelude® 60° Base Cross Tee – 48" Main Beam Spacing
<b>XM7348</b>	 Prelude® Perimeter Cross Tee – 48" Main Beam Spacing
<b>PCC</b>	 Axiom® Perimeter Corner Clip
<b>PAC</b>	 Perimeter Angle Clip

**75° SHAPES**

Item No.	Description
<b>73AB75L</b>	 Prelude® 75° Left Angle Bracket
<b>73AB75R</b>	 Prelude® 75° Right Angle Bracket
<b>73AB75D</b>	 Prelude® 75° Double Angle Bracket
<b>XM737548</b>	 Prelude® 75° Base Cross Tee – 48" Main Beam Spacing
<b>XM7348</b>	 Prelude® Perimeter Cross Tee – 48" Main Beam Spacing
<b>PCC</b>	 Axiom® Perimeter Corner Clip
<b>PAC</b>	 Perimeter Angle Clip

For additional suspension components, trims, and clips, please consult the full installation instructions at [www.armstrongceilings.com/shapesinstallation](http://www.armstrongceilings.com/shapesinstallation)  
For additional product details see the Prelude® XM for DesignFlex™ Shapes data page.

**PARTNER COMPANIES** For more information on our partner companies, please visit [armstrongceilings.com/partners](http://armstrongceilings.com/partners)

Compatible with:  
Axis Geometrix™ Lighting, JLC-Tech  
FLEX T-BAR LED Lights and Price diffusers.



Lighting, diffusers and shaped infill panels are available for 24" and 48" base items. Add **L I N E** to the end of the panel item number to order an infill. Metal diffuser infills are available from the diffuser manufacturer.

**SUSPENSION SYSTEMS**

15/16"



Prelude® XM  
for Shapes

**PHYSICAL DATA**

**Material**  
Fiberglass with DuraBrite® acoustically transparent membrane

**Surface Finish**  
DuraBrite with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**High Recycled Content**

Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Seismic Restraint**

Prelude® XM for Shapes suspension systems have been engineered, tested, and approved for use with DesignFlex™ Shapes panels for application in all seismic areas when installed per Armstrong® Ceilings installation instructions. For more details, visit [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Insulation Value**

R Factor – 2.2 (BTU units)  
R Factor – 0.39 (Watts units)

**10-Year Performance Guarantee & Warranty**

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Weight; Pieces/Carton**

100227 – 1.6 lbs/pc; 12 pcs/ctn  
100225 – 3.2 lbs/pc; 6 pcs/ctn  
100244, 100245 – 3.2 lbs/pc; 8 pcs/ctn  
100231 – 3.2 lbs/pc; 12 pcs/ctn  
100235 – 4.8 lbs/pc; 6 pcs/ctn  
100240, 100241 – 6.4 lbs/pc; 6 pcs/ctn

**Minimum Order Quantity**

1 carton

TechLine / 1 877 276-7876  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)  
(search: optimashapes)

BPCS-5847-119

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of The International Living Future Institute  
Price® is a registered trademark of Price Industries Limited  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

143A



DESIGNFlex™



DESIGNflex™

TechLine 877 276-7876  
armstrongceilings.com/designflex

**Armstrong** 143B  
CEILING & WALL SOLUTIONS

**new** OPTIMA® Shapes  
for DESIGNFlex™  
with Plant-based Binder  
Tegular  
fine texture

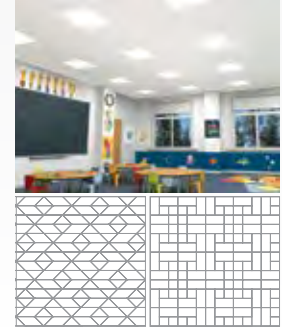


**DESIGNFlex™**  
CEILING SYSTEMS



**Personalize Your Design!**

Mix and match different sizes, shapes, colors and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



Optima® Shapes panels with Suprafine® XM 9/16" suspension system (Pgs. 160-161)

Fine-textured ceiling panels available in shapes and tailor-made sizes with Sustain® performance. Available to ship in 3 weeks.

**KEY SELECTION ATTRIBUTES**

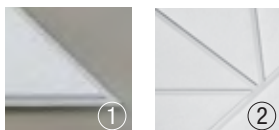
- new** • DESIGNFlex™ options include shapes and sizes available to ship in 3 weeks
- Mix and match – Shapes also available with Calla®, Lyra®, Ultima®, and MetalWorks™ panels
- Optima® panels are manufactured with a plant-based binder and are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Excellent sound absorption – NRC (0.95)
- Light reflectance – 0.90
- Shaped lights and diffusers are available from our DESIGNFlex™ partners. Our TechZone® lighting and MEP partners also provide products that are compatible with the DESIGNFlex™ system; other standard modular and pendant fixtures can also be used with this ceiling system
- Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 10-Year Limited System Warranty against visible sag, mold, and mildew

**COLOR**



White  
(WH)

**DETAILS**



1. Optima® Shapes Tegular
2. Optima® Shapes Tegular with Suprafine® XM 9/16" suspension system



Start your design process with a visit to our online pattern gallery at: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery)

See dozens of pre-designed patterns and shapes online in our pattern gallery. We've provided all of the details – from takeoffs showing 2' or 4' on-center spacing to panels, suspension, trims, and accessories. Installation instructions answer questions typically associated with unique ceiling installations. Lighting and air diffusers can also be easily integrated. If you can't find the ceiling pattern you envision for your next space online, call us and we'll help you create a design to personalize your space – 1 877 276-7876.



These 9 Optima® Shapes with Square Tegular edges are available with Suprafine® XM 9/16" suspension:

**45° SHAPES**

**Triangles**

**2' Main Beam Spacing** **100200** Triangle  
24 x 48 x 1"

**Total Acoustics<sup>1</sup>**

NRC + CAC = NRC + CAC  
0.95 N/A -

**Right Triangle – 2' Main Beam Spacing** **100207** Right Triangle –  
24 x 24 x 1"

**Total Acoustics<sup>1</sup>**

NRC + CAC = NRC + CAC  
0.95 N/A -

**Right Triangle – 4' Main Beam Spacing** **100208** Right Triangle –  
48 x 48 x 1"

**Total Acoustics<sup>1</sup>**

NRC + CAC = NRC + CAC  
0.95 N/A -

**60° SHAPES**

**Triangles**

**2' Main Beam Spacing** **100201** Triangle  
24 x 24 x 1"

**Total Acoustics<sup>1</sup>**

NRC + CAC = NRC + CAC  
0.95 N/A -

**4' Main Beam Spacing** **100202** Triangle  
48 x 48 x 1"

**Total Acoustics<sup>1</sup>**

NRC + CAC = NRC + CAC  
0.95 N/A -

**Right Triangle – 2' Main Beam Spacing** **100205** Right Triangle –  
Left 24 x 48 x 1"

**Total Acoustics<sup>1</sup>**

NRC + CAC = NRC + CAC  
0.95 N/A -

**Right Triangle – 4' Main Beam Spacing** **100206** Right Triangle –  
Right 24 x 48 x 1"

**Total Acoustics<sup>1</sup>**

NRC + CAC = NRC + CAC  
0.95 N/A -

**75° SHAPES**

**Triangles**

**2' Main Beam Spacing** **100203** Triangle  
24 x 12 x 1"

**Total Acoustics<sup>1</sup>**

NRC + CAC = NRC + CAC  
0.95 N/A -

**4' Main Beam Spacing** **100204** Triangle  
48 x 24 x 1"

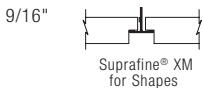
**Total Acoustics<sup>1</sup>**

NRC + CAC = NRC + CAC  
0.95 N/A -

**MORE ITEMS ▶**

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

**SUSPENSION SYSTEMS**



**PARTNER COMPANIES**

Compatible with:  
Axis Geometrix™ Lighting,  
JLC-Tech FLEX T-BAR LED  
Lights and Price diffusers.



For more information on our partner companies, please visit [armstrongceilings.com/partners](http://armstrongceilings.com/partners)

Shaped infill panels are available for applicable lighting fixtures. Add **LINF** to the end of any Shape panel item number to order. Metal diffuser inflills are available from the diffuser manufacturer.

**PHYSICAL DATA**

**Material**  
Fiberglass with DuraBrite® acoustically transparent membrane

**Surface Finish**  
DuraBrite with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**High Recycled Content**  
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Seismic Restraint**  
Suprafine® XM for Shapes suspension systems have been engineered, tested, and approved for use with DESIGNflex™ Shapes panels for application in all seismic areas when installed per Armstrong® Ceilings installation instructions. For more details, visit [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
[UL.COM/66](http://UL.COM/66)  
UL 2818



**Insulation Value**  
R Factor – 2.2 (BTU units)  
R Factor – 0.39 (Watts units)

**10-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Weight; Pieces/Carton**  
100203 – 0.4 lbs/pc; 24 pcs/ctn  
100201 – 0.8 lbs/pc; 12 pcs/ctn  
100207 – 0.8 lbs/pc; 24 pcs/ctn  
100200, 100204 – 1.6 lbs/pc; 12 pcs/ctn  
100205, 100206 – 1.6 lbs/pc; 24 pcs/ctn  
100202 – 3.2 lbs/pc; 6 pcs/ctn  
100208 – 3.2 lbs/pc; 12 pcs/ctn

**Minimum Order Quantity**  
1 carton



**OPTIMA® Shapes**  
for DESIGNFlex™  
with Plant-based Binder

Tegular  
fine texture

PANEL OPTIONS (shown in finish view from below ceiling)



**GREENGUARD**  
Gold Certified  
(details below)

**Declare**™  
Living Building  
Challenge Compliant



**SUSTAIN**™  
High Performance  
Sustainable  
Ceiling Systems

**71%** RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengene



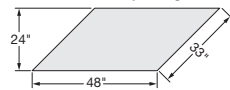
LOCATION DEPENDENT

These 10 Optima® Shapes with Square Tegular edges are available with Suprafine® XM 9/16" suspension:

**45° SHAPES**

**Parallelograms**

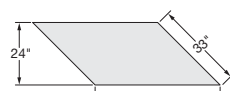
2' Main Beam Spacing **100213** Right Parallelogram 24 x 48 x 1"



**Total Acoustics¹**

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} \\ \text{0.95} & & \text{N/A} & & \text{CAC} \\ \bullet & & & & - \end{matrix}$$

2' Main Beam Spacing **100214** Left Parallelogram 24 x 48 x 1"



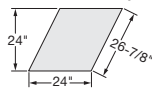
**Total Acoustics¹**

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} \\ \text{0.95} & & \text{N/A} & & \text{CAC} \\ \bullet & & & & - \end{matrix}$$

**60° SHAPES**

**Parallelograms**

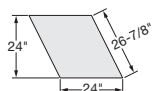
2' Main Beam Spacing **100215** Right Parallelogram 24 x 24 x 1"



**Total Acoustics¹**

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} \\ \text{0.95} & & \text{N/A} & & \text{CAC} \\ \bullet & & & & - \end{matrix}$$

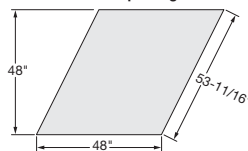
2' Main Beam Spacing **100216** Left Parallelogram 24 x 24 x 1"



**Total Acoustics¹**

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} \\ \text{0.95} & & \text{N/A} & & \text{CAC} \\ \bullet & & & & - \end{matrix}$$

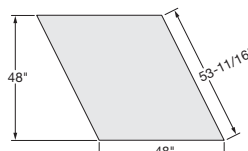
4' Main Beam Spacing **100217** Right Parallelogram 48 x 48 x 1"



**Total Acoustics¹**

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} \\ \text{0.95} & & \text{N/A} & & \text{CAC} \\ \bullet & & & & - \end{matrix}$$

4' Main Beam Spacing **100218** Left Parallelogram 48 x 48 x 1"



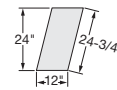
**Total Acoustics¹**

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} \\ \text{0.95} & & \text{N/A} & & \text{CAC} \\ \bullet & & & & - \end{matrix}$$

**75° SHAPES**

**Parallelograms**

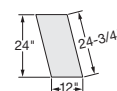
2' Main Beam Spacing **100219** Right Parallelogram 24 x 12 x 1"



**Total Acoustics¹**

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} \\ \text{0.95} & & \text{N/A} & & \text{CAC} \\ \bullet & & & & - \end{matrix}$$

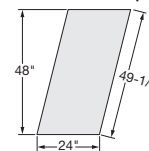
2' Main Beam Spacing **100220** Left Parallelogram 24 x 12 x 1"



**Total Acoustics¹**

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} \\ \text{0.95} & & \text{N/A} & & \text{CAC} \\ \bullet & & & & - \end{matrix}$$

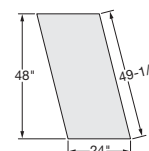
4' Main Beam Spacing **100221** Right Parallelogram 48 x 24 x 1"



**Total Acoustics¹**

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} \\ \text{0.95} & & \text{N/A} & & \text{CAC} \\ \bullet & & & & - \end{matrix}$$

4' Main Beam Spacing **100222** Left Parallelogram 48 x 24 x 1"

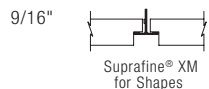


**Total Acoustics¹**

$$\begin{matrix} \text{NRC} & + & \text{CAC} & = & \text{NRC} \\ \text{0.95} & & \text{N/A} & & \text{CAC} \\ \bullet & & & & - \end{matrix}$$

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

**SUSPENSION SYSTEMS**



**PARTNER COMPANIES** For more information on our partner companies, please visit [armstrongceilings.com/partners](http://armstrongceilings.com/partners)

Compatible with:  
Axis Geometrix™ Lighting,  
JLC-Tech FLEX T-BAR LED  
Lights and Price diffusers.



Shaped infill panels are available for applicable lighting fixtures. Add **LIF** to the end of any Shape panel item number to order. Metal diffuser inflills are available from the diffuser manufacturer.

**PHYSICAL DATA**

**Material**  
Fiberglass with DuraBrite® acoustically transparent membrane

**Surface Finish**  
DuraBrite with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**High Recycled Content**  
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



**Seismic Restraint**  
Suprafine® XM for Shapes suspension systems have been engineered, tested, and approved for use with DESIGNFlex™ Shapes panels for application in all seismic areas when installed per Armstrong® Ceilings installation instructions. For more details, visit [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Insulation Value**  
R Factor – 2.2 (BTU units)  
R Factor – 0.39 (Watts units)

**10-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Weight; Pieces/Carton**  
100219, 100220 – 0.8 lbs/pc; 24 pcs/ctn  
100215, 100216 – 1.6 lbs/pc; 12 pcs/ctn  
100213, 100214, 100221, 100222 – 3.2 lbs/pc; 12 pcs/ctn  
100217, 100218 – 6.4 lbs/pc; 6 pcs/ctn

**Minimum Order Quantity**  
1 carton

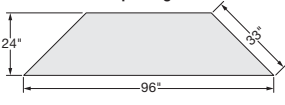
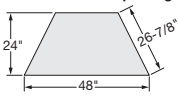
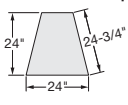




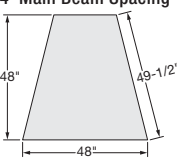

DESIGNFlex™ SHAPES



Tegular  
fine texture

PANEL OPTIONS (shown in finish view from below ceiling)

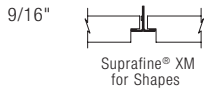
These 4 Optima® Shapes with Square Tegular edges are available with Suprafine® XM 9/16" suspension:

45° SHAPES	Item No.	Description/Dimensions (Inches)	Item No.	Description/Dimensions (Inches)	Item No.	Description/Dimensions (Inches)		
<b>Trapezoids</b>								
2' Main Beam Spacing	<b>100209</b>	Trapezoid 24 x 96 x 1"	2' Main Beam Spacing	<b>100210</b>	Trapezoid 24 x 48 x 1"	2' Main Beam Spacing	<b>100211</b>	Trapezoid 24 x 24 x 1"
								
		<b>Total Acoustics<sup>1</sup></b>		<b>Total Acoustics<sup>1</sup></b>		<b>Total Acoustics<sup>1</sup></b>		<b>Total Acoustics<sup>1</sup></b>
								
		0.95 N/A -		0.95 N/A -		0.95 N/A -		0.95 N/A -
						4' Main Beam Spacing	<b>100212</b>	Trapezoid 48 x 48 x 1"
								
								<b>Total Acoustics<sup>1</sup></b>
								
								0.95 N/A -

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

Suprafine® XM suspension components, trim, and clips can be found on Pgs. 160-161.

**SUSPENSION SYSTEMS**



**PARTNER COMPANIES** For more information on our partner companies, please visit [armstrongceilings.com/partners](http://armstrongceilings.com/partners)

Compatible with:  
Axis Geometrix™ Lighting,  
JLC-Tech FLEX T-BAR LED  
Lights and Price diffusers.



Shaped infill panels are available for applicable lighting fixtures. Add **L I N E** to the end of any Shape panel item number to order. Metal diffuser inflills are available from the diffuser manufacturer.

**PHYSICAL DATA**

**Material**  
Fiberglass with DuraBrite® acoustically transparent membrane

**Surface Finish**  
DuraBrite with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**High Recycled Content**

Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

PRODUCT CERTIFIED  
FOR LOW CHEMICAL  
EMISSIONS  
UL.COM/GG  
UL 2818



**Seismic Restraint**

Suprafine® XM for Shapes suspension systems have been engineered, tested, and approved for use with DESIGNFlex™ Shapes panels for application in all seismic areas when installed per Armstrong® Ceilings installation instructions. For more details, visit [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Insulation Value**

R Factor – 2.2 (BTU units)  
R Factor – 0.39 (Watts units)

**10-Year Performance Guarantee & Warranty**

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

**Weight; Pieces/Carton**

100211 – 1.2 lbs/pc; 12 pcs/ctn  
100210 – 2.4 lbs/pc; 12 pcs/ctn  
100209, 100212 – 4.8 lbs/pc; 6 pcs/ctn

**Minimum Order Quantity**

1 carton



**new** ULTIMA® Shapes  
for DESIGNFlex™

Tegular  
fine texture



**TOTAL  
ACOUSTICS®**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)



**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems



**DESIGNFlex™**  
A New World of Choice  
for Ceiling Systems

**DESIGNFlex™**  
CEILING SYSTEMS



**Personalize Your Design!**

Mix and match different sizes, shapes, colors, and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



Ultima® Shapes panels with Suprafine® XM 9/16" suspension system

Fine-textured ceiling panels available in shapes and tailor-made sizes with Total Acoustics® and Sustain® performance. Available to ship in 3 weeks.

**KEY SELECTION ATTRIBUTES**

- new** • DesignFlex™ options include shapes and tailor-made sizes available to ship in 3 weeks
- Mix and match – Shapes also available in Calla®, Lyra®, Optima®, and MetalWorks™ panels
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panel options: NRC + CAC = Total Acoustics Performance™
- Ultima® panels are part of the Sustain® portfolio and meet the most stringent sustainability compliance standards today
- Light reflectance – 0.90
- Lighting and MEP integration with TechZone® or with shaped lights and diffusers available through one of our partner companies or with standard modular and pendant lights
- Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 10-Year Limited System Warranty against visible sag, mold, and mildew

**COLOR**

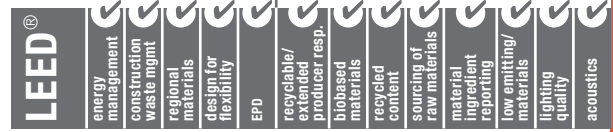


White  
(WH)

**DETAILS**



1. Ultima® Shapes Tegular
2. Ultima® Shapes Tegular with Suprafine® XM 9/16" suspension system



LOCATION DEPENDENT

Start your design process with a visit to our online pattern gallery at: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery)

See dozens of pre-designed patterns and shapes online in our pattern gallery. We've provided all of the details – from take offs showing 2' or 4' on-center spacing to panels, suspension, trims, and accessories. Installation instructions answer questions typically associated with unique ceiling installations. Lighting and air diffusers can also be easily integrated. If you can't find the ceiling pattern you envision for your next space online, call us and we'll help you create a design to personalize your space – 1-877-276-7876.

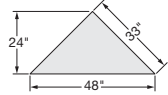


These 7 Ultima® Shapes with Beveled Tegular edges are available with Suprafine® XM 9/16" suspension:

**45° SHAPES**

**Triangles**

2' Main Beam Spacing



**100300** Triangle  
24 x 48 x 3/4"

Total Acoustics<sup>1</sup>

	+		=	
0.70		35		<b>BETTER</b>

Right Triangles –  
2' Main Beam Spacing



**100307** Right Triangle –  
24 x 24 x 3/4"

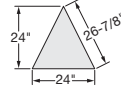
Total Acoustics<sup>1</sup>

	+		=	
0.70		N/A		-

**60° SHAPES**

**Triangles**

2' Main Beam Spacing

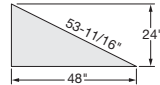


**100301** Triangle  
24 x 24 x 3/4"

Total Acoustics<sup>1</sup>

	+		=	
0.70		N/A		-

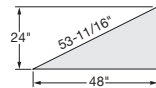
Right Triangles –  
2' Main Beam Spacing



**100305** Right Triangle –  
Left  
24 x 48 x 3/4"

Total Acoustics<sup>1</sup>

	+		=	
0.70		N/A		-



**100306** Right Triangle –  
Right  
24 x 48 x 3/4"

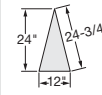
Total Acoustics<sup>1</sup>

	+		=	
0.70		N/A		-

**75° SHAPES**

**Triangles**

2' Main Beam Spacing

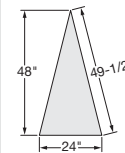


**100303** Triangle  
24 x 12 x 3/4"

Total Acoustics<sup>1</sup>

	+		=	
0.70		N/A		-

4' Main Beam Spacing



**100304** Triangle  
48 x 24 x 3/4"

Total Acoustics<sup>1</sup>

	+		=	
0.70		N/A		-

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)





# ULTIMA® Shapes for DESIGNflex™

Tegular  
fine texture



**Declare™**  
Living Building  
Challenge Compliant

**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems

**84%** RECYCLED CONTENT

Calculate LEED contribution at  
[armstrongceilings.com/greengene](http://armstrongceilings.com/greengene)



LOCATION DEPENDENT

## PANEL OPTIONS (shown in finish view from below ceiling)

These 6 Ultima® Shapes with Beveled Tegular edges are available with Suprafine® XM 9/16" suspension:

### 45° SHAPES

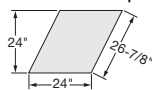
#### Parallelograms

No Parallelograms available in 45° shapes

### 60° SHAPES

#### Parallelograms

2' Main Beam Spacing



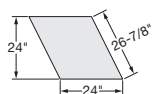
### Item No. Description/Dimensions (Inches)

**100313** Right Parallelogram  
24 x 24 x 3/4"

Total Acoustics<sup>1</sup>

$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.70    35    **BETTER**



**100314** Left Parallelogram  
24 x 24 x 3/4"

Total Acoustics<sup>1</sup>

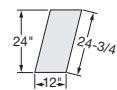
$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.70    35    **BETTER**

### 75° SHAPES

#### Parallelograms

2' Main Beam Spacing



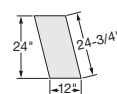
### Item No. Description/Dimensions (Inches)

**100315** Right Parallelogram  
24 x 12 x 3/4"

Total Acoustics<sup>1</sup>

$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.70    N/A    -



**100316** Left Parallelogram  
24 x 12 x 3/4"

Total Acoustics<sup>1</sup>

$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

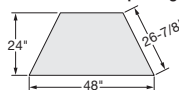
0.70    N/A    -

### Trapezoids

No Trapezoids available in 45° shapes

### Trapezoids

2' Main Beam Spacing



**100309** Trapezoid  
24 x 48 x 3/4"

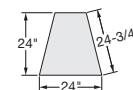
Total Acoustics<sup>1</sup>

$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.70    35    **BETTER**

### Trapezoids

2' Main Beam Spacing



**100310** Right Parallelogram  
24 x 12 x 3/4"

Total Acoustics<sup>1</sup>

$$\begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} + \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix} = \begin{matrix} \text{NRC} \\ \text{CAC} \end{matrix}$$

0.70    35    **BETTER**

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## PHYSICAL DATA

### Material

Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane

### Surface Finish

DuraBrite® scrim with factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification

Type IV, Form 2, Pattern E  
Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### High Recycled Content

Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Seismic Restraint

Suprafine® XM for Shapes suspension systems have been engineered, tested, and approved for use with DesignFlex™ Shapes panels for application in all seismic areas when installed per Armstrong® Ceilings installation instructions. For more details, visit [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

### Insulation Value

R Factor – 2.2 (BTU units)  
R Factor – 0.39 (Watts units)

### 10-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com/shapesinstallation](http://armstrongceilings.com/shapesinstallation)

### Weight; Pieces/Carton

100303 – 0.97 lbs/pc; 24 pcs/ctn  
100301 – 1.94 lbs/pc; 12 pcs/ctn  
100307, 100315, 100316 – 1.94 lbs/pc; 24 pcs/ctn  
100310 – 2.91 lbs/pc; 12 pcs/ctn  
100300, 100304, 100305, 100306, 100313, 100314 – 3.88 lbs/pc; 12 pcs/ctn  
100309 – 5.82 lbs/pc; 8 pcs/ctn

### Minimum Order Quantity






1 carton








LOCATION DEPENDENT

**SUSPENSION SYSTEMS COMPONENTS & ACCESSORIES** System utilizes Suprafine® XL® main beams






**45° SHAPES**

Item No.	Description
<b>75AB45L</b>	 Suprafine® 45° Left Angle Bracket
<b>75AB45R</b>	 Suprafine® 45° Right Angle Bracket
<b>75AB45D</b>	 Suprafine® 45° Double Angle Bracket
<b>75CB45</b>	Suprafine® 45° Corner Bracket
<b>XM754524</b>	Suprafine® 45° Base Cross Tee – 24" Main Beam Spacing
<b>XM754548</b>	Suprafine® 45° Base Cross Tee – 48" Main Beam Spacing
<b>XM7524</b>	Suprafine® Perimeter Cross Tee – 24" Main Beam Spacing
<b>XM7548</b>	Suprafine® Perimeter Cross Tee – 48" Main Beam Spacing
<b>PCC</b>	 Axiom® Perimeter Corner Clip
<b>PAC</b>	 Perimeter Angle Clip

**60° SHAPES**

Item No.	Description
<b>75AB60L</b>	 Suprafine® 60° Left Angle Bracket
<b>75AB60R</b>	 Suprafine® 60° Right Angle Bracket
<b>75AB60D</b>	 Suprafine® 60° Double Angle Bracket
<b>75CB60L</b>	Suprafine® 60° Corner Bracket – Left
<b>75CB60R</b>	Suprafine® 60° Corner Bracket – Right
<b>XM756024</b>	Suprafine® 60° Base Cross Tee – 24" Main Beam Spacing
<b>XM756048</b>	Suprafine® 60° Base Cross Tee – 48" Main Beam Spacing
<b>XM7524</b>	Suprafine® Perimeter Cross Tee – 24" Main Beam Spacing
<b>XM7548</b>	Suprafine® Perimeter Cross Tee – 48" Main Beam Spacing
<b>PCC</b>	 Axiom® Perimeter Corner Clip
<b>PAC</b>	 Perimeter Angle Clip

**75° SHAPES**

Item No.	Description
<b>75AB75L</b>	 Suprafine® 75° Left Angle Bracket
<b>75AB75R</b>	 Suprafine® 75° Right Angle Bracket
<b>75AB75D</b>	 Suprafine® 75° Double Angle Bracket
<b>XM757524</b>	Suprafine® 75° Base Cross Tee – 24" Main Beam Spacing
<b>XM757548</b>	Suprafine® 75° Base Cross Tee – 48" Main Beam Spacing
<b>XM7524</b>	Suprafine® Perimeter Cross Tee – 24" Main Beam Spacing
<b>XM7548</b>	Suprafine® Perimeter Cross Tee – 48" Main Beam Spacing
<b>PCC</b>	 Axiom® Perimeter Corner Clip
<b>PAC</b>	 Perimeter Angle Clip

For additional suspension components, trims, and clips, please consult the full installation instructions at [www.armstrongceilings.com/shapesinstallation](http://www.armstrongceilings.com/shapesinstallation)  
For additional product details see the Suprafine® XM for DesignFlex™ Shapes data page.

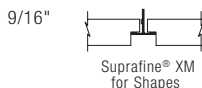
**PARTNER COMPANIES** For more information on our partner companies, please visit [armstrongceilings.com/partners](http://armstrongceilings.com/partners)

Compatible with:  
Axis Geometrix™ Lighting,  
JLC-Tech FLEX T-BAR LED  
Lights and Price diffusers.



Shaped infill panels are available for applicable lighting fixtures. Add **L I N E** to the end of any Shape panel item number to order. Metal diffuser infills are available from the diffuser manufacturer.

**SUSPENSION SYSTEMS**



**new** METALWORKS™ Shapes for DESIGNFlex™

Tegular smooth texture



**DESIGNFlex™** CEILING SYSTEMS



**Personalize Your Design!**

Mix and match different sizes, shapes, colors, and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



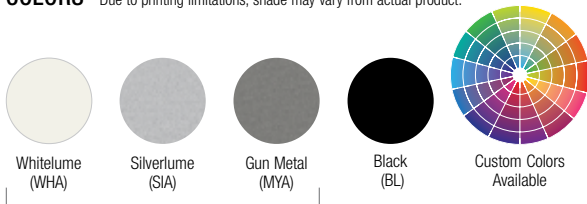
MetalWorks™ Shapes for DESIGNFlex™ with Suprafine® XM 9/16" suspension system (Pgs. 160-161)

Now, MetalWorks™ Shapes in 45° and 60° triangles, parallelograms, and trapezoids.

**KEY SELECTION ATTRIBUTES**

- DESIGNFlex™ options mean shapes, sizes, and colors
- Mix and match – Shapes also available with Calla®, Lyra®, Ultima®, and Optima® panels
- MetalWorks™ panels are part of the Sustain™ portfolio, and meet the most stringent sustainability compliance standards today
- Lighting and MEP integration with TechZone®, or with shaped lights and diffusers, available through one of our partner companies, or with standard modular and pendant lights
- Aluminum panels with exceptional durability – Washable, Scrubbable, Soil-resistant

**COLORS** Due to printing limitations, shade may vary from actual product.

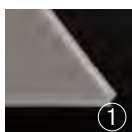


Part of the Sustain portfolio, meeting sustainability compliance standards. (M1 – unperforated panels only)

**PERFORATION OPTIONS** (1:2 scale shown)



**DETAILS**



1. MetalWorks™ Shapes for DesignFlex™ Tegular in M1 unperforated



Tegular  
smooth texture

**Declare™**  
Living Building  
Challenge Compliant

**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems  
Unperforated (M1)



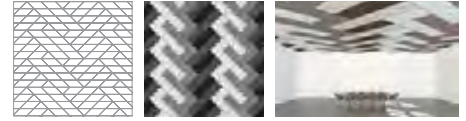
UP TO **80%** RECYCLED CONTENT

For LEED contribution contact TechLine

LEED	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	bio-based materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
LOCATION DEPENDENT													
WITH INFILL PANEL													

Start your design process with a visit to our online pattern gallery at: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery)

See dozens of pre-designed patterns and colors online in our pattern gallery. We've provided all of the details – from takeoffs showing 2' or 4' on-center spacing to panels, suspension, trims, and accessories. Installation instructions answer questions typically associated with unique ceiling installations. Lighting and air diffusers can also be easily integrated. If you can't find the ceiling pattern you envision for your next space online, call us and we'll help you create a design to personalize your space – 1 877 276-7876.



These 8 MetalWorks™ Shapes with Tegular edges are available for Suprafine® XM 9/16" suspension:

**45° SHAPES**

**Triangles**

**2' Main Beam Spacing**     **8284M1** \_ \_ \_ Triangle

Panel 5/16" thick

**8285M1** \_ \_ \_ Right Triangle

Panel 5/16" thick

**Parallelograms**

**2' Main Beam Spacing**     **8287M1** \_ \_ \_ Right Parallelogram

Panel 5/16" thick

**8288M1** \_ \_ \_ Left Parallelogram

Panel 5/16" thick

**Trapezoids**

No Trapezoids available in 45° shapes

**60° SHAPES**

**Triangles**

**2' Main Beam Spacing**     **8290M1** \_ \_ \_ Triangle

Panel 5/16" thick

**Parallelograms**

**2' Main Beam Spacing**     **8292M1** \_ \_ \_ Right Parallelogram

Panel 5/16" thick

**8293M1** \_ \_ \_ Left Parallelogram

Panel 5/16" thick

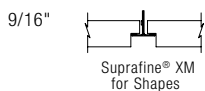
**Trapezoids**

**2' Main Beam Spacing**     **8296M1** \_ \_ \_ Trapezoid

Panel 5/16" thick

When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g. 8284M1 W H A).

**SUSPENSION SYSTEMS**



Suspension system is available in coordinating colors

**PHYSICAL DATA**

- Material**  
Aluminum – thickness 0.040"
- Surface Finish**  
Factory-applied polyester paint finish  
Custom colors also available. Contact TechLine for custom color matching requests at 1 877 ARMSTRONG.
- Fire Performance**  
ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.
- ASTM E1264 Classification**  
Fire Class – Class A  
Unperforated – Type XX, Pattern G  
Perforated – Type XX, Pattern C

- Installation Considerations**  
See installation instructions for bracket and perimeter solution guidelines.
- Design Considerations**  
MetalWorks™ Shapes for DESIGNFlex™ installation system based on parallel main beam spacing.  
Silverlume and Gun Metal colors are directional and run parallel to base as shown on data page. This must be considered in ceiling layout plans for right triangle shape.  
For optimum visual design, backlighting panels is not recommended.  
For any color available contact: [asquote@armstrongceilings.com](mailto:asquote@armstrongceilings.com)
- Seismic Restraint**  
Suprafine® XM for DESIGNFlex™ Shapes suspension system have been engineered, tested, and approved for

- use with DESIGNFlex™ Shapes panels when installed per Armstrong Ceilings installation instructions.
- Warranty**  
Details at [armstrongceilings.com/warranty](http://armstrongceilings.com/warranty)
- Weight/Panel (Bulk Packed)**  
8284 – 2.2 lbs/SF  
8285 – 1.1 lbs/SF  
8287 – 4.4 lbs/SF  
8288 – 4.4 lbs/SF  
8290 – 1.1 lbs/SF  
8292 – 2.2 lbs/SF  
8293 – 2.2 lbs/SF  
8296 – 3.3 lbs/SF



# METALWORKS™ Shapes for DESIGNflex™

Tegular  
smooth texture

**Declare**™  
Living Building  
Challenge Compliant

**SUSTAIN**™  
High Performance  
Sustainable  
Ceiling Systems  
Unperforated (M1)



UP TO **80%** RECYCLED CONTENT

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

For LEED contribution contact TechLine







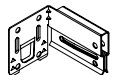
LOCATION DEPENDENT

WITH INFILL PANEL






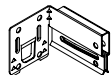
## SUSPENSION SYSTEMS COMPONENTS & ACCESSORIES System utilizes Suprafine® XL® main beams

Use with Suprafine® XL® Main Beam – items 7500, 7501 (Pgs. 160-161) and Molding.

### 45° SHAPES

Item No.	Description
<b>75AB45L</b>	 Suprafine® 45° Left Angle Bracket
<b>75AB45R</b>	 Suprafine® 45° Right Angle Bracket
<b>75AB45D</b>	 Suprafine® 45° Double Angle Bracket
<b>75CB45</b>	 Suprafine® 45° Corner Bracket
<b>XM754524</b>	Suprafine® 45° Base Cross Tee – 24" Main Beam Spacing
<b>XL7520</b>	24" Suprafine® Cross Tee
<b>XM7524</b>	Suprafine® Perimeter Cross Tee – 24" Main Beam Spacing
<b>PCC</b>	 Axiom® Perimeter Corner Clip
<b>PAC</b>	 Perimeter Angle Clip
<b>BERC2</b>	 2" Beam End Retaining Clip

### 60° SHAPES

Item No.	Description
<b>75AB60L</b>	 Suprafine® 60° Left Angle Bracket
<b>75AB60R</b>	 Suprafine® 60° Right Angle Bracket
<b>75AB60D</b>	 Suprafine® 60° Double Angle Bracket
<b>XM756024</b>	Suprafine® 60° Base Cross Tee – 24" Main Beam Spacing
<b>XM7524</b>	Suprafine® Perimeter Cross Tee – 24" Main Beam Spacing
<b>PCC</b>	 Axiom® Perimeter Corner Clip
<b>PAC</b>	 Perimeter Angle Clip
<b>BERC2</b>	 2" Beam End Retaining Clip

For additional suspension components, trims, and clips, please consult the full installation instructions at [www.armstrongceilings.com/shapesinstallation](http://www.armstrongceilings.com/shapesinstallation)  
For additional product details see Pgs. 160-161.

DESIGNflex™ SHAPES

**new METALWORKS™ Shapes for DESIGNFlex™**

Tegular  
smooth texture



**SUSTAIN™**  
High Performance Sustainable Ceiling Systems Unperforated (M1)

**Declare™**  
Living Building Challenge Compliant

UP TO **80%** RECYCLED CONTENT

LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

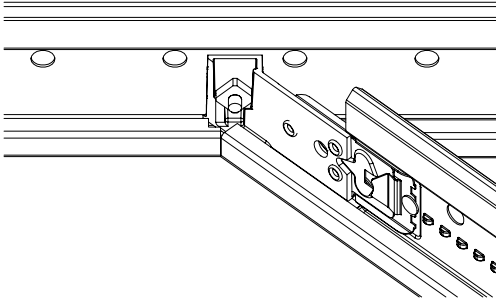
For LEED contribution contact TechLine

LOCATION DEPENDENT

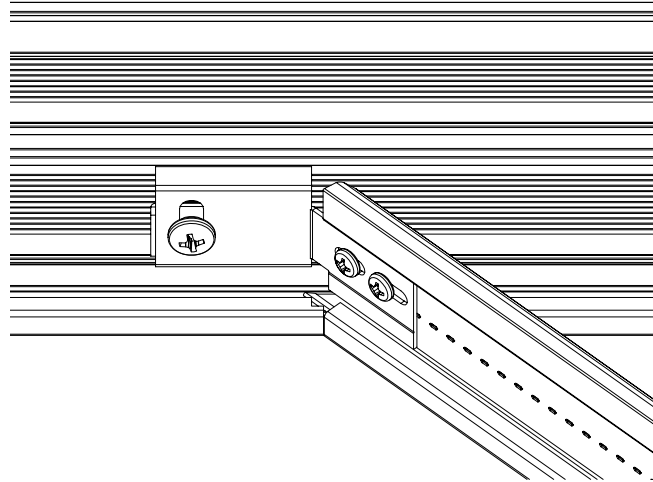
WITH INFILL PANEL

**DETAILS**

**Tegular Panel installed with Angle Bracket connecting Suprafine® XM Cross Tee and Main Beam**



**Full-size Tegular Panel Axiom® Trim Perimeter Solution, using AXTBC Clip**



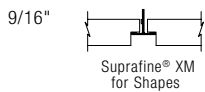
**PARTNER COMPANIES** For more information on our partner companies, please visit [armstrongceilings.com/partners](http://armstrongceilings.com/partners)

Compatible with:  
Axis Geometrix™ Lighting,  
JLC-Tech FLEX T-BAR LED  
Lights and Price diffusers.



Shaped infill panels are available through [asquote@armstrongceilings.com](mailto:asquote@armstrongceilings.com) for specific partner lighting fixtures.

**SUSPENSION SYSTEMS**



Suspension system is available in coordinating colors

**PHYSICAL DATA**

**Material**  
Aluminum – thickness 0.040"

**Surface Finish**  
Factory-applied polyester paint finish  
Custom colors also available. Contact TechLine for custom color matching requests at 1 877 276-7876.

**Fire Performance**  
ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

**ASTM E1264 Classification**  
Fire Class – Class A  
Unperforated – Type XX, Pattern G  
Perforated – Type XX, Pattern C

**Installation Considerations**  
See installation instructions for bracket and perimeter solution guidelines.

**Design Considerations**  
MetalWorks™ Shapes for DESIGNFlex™ installation system based on parallel main beam spacing.

Silverlume and Gun Metal colors are directional and run parallel to base as shown on data page. This must be considered in ceiling layout plans for right triangle shape. For optimum visual design, backlighting panels is not recommended.

For any color available contact: [asquote@armstrongceilings.com](mailto:asquote@armstrongceilings.com)

**Seismic Restraint**  
Suprafine® XM for DESIGNFlex™ Shapes suspension system have been engineered, tested, and approved for use with DESIGNFlex™ Shapes panels when installed per Armstrong Ceilings installation instructions.

**Warranty**  
Details at [armstrongceilings.com/warranty](http://armstrongceilings.com/warranty)

**Weight/Panel (Bulk Packed)**

8284 – 2.2 lbs/SF
8285 – 1.1 lbs/SF
8287 – 4.4 lbs/SF
8288 – 4.4 lbs/SF
8290 – 1.1 lbs/SF
8292 – 2.2 lbs/SF
8293 – 2.2 lbs/SF
8296 – 3.3 lbs/SF

TechLine / 1 877 276-7876  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)  
(search: metalworks shapes)

BPCS-5811-1218

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of The International Living Future Institute  
Price® is a registered trademark of Price Industries Limited. Geometrix™ and Axis are owned by Axis Lighting. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America



Tegular  
smooth texture



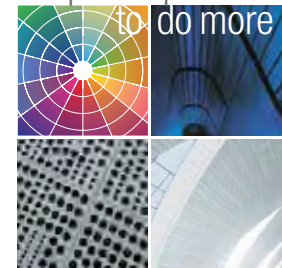
See MetalWorks™ Shapes

**Personalize Your Design!**

Mix and match different sizes, shapes, colors, and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



plus capabilities  
to do more



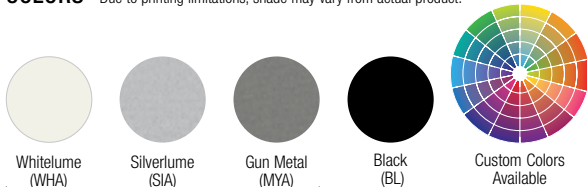
[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

Personalize your design and get acoustical performance with MetalWorks™ for DESIGNFlex™ perforated panels.

**KEY SELECTION ATTRIBUTES**

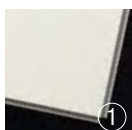
- DESIGNFlex™ options mean shapes, sizes, and colors
- Mix and match – Shapes for DESIGNFlex™ also available with Calla®, Lyra®, Ultima®, Optima®, and MetalWorks™
- MetalWorks™ for DESIGNFlex™ panels can be combined with other DESIGNFlex™ product families
- Lighting and MEP integration with TechZone®, or with standard modular and pendant lights
- Perforations available to enhance acoustical performance and design aesthetics
- Outstanding NRC with acoustical fleece or infill panel (0.65 – 0.90)
- Easy-to-cut BioAcoustic™ infill panels can enhance acoustics and contribute to LEED® credits
- Aluminum panels with exceptional durability – Washable, Scrubbable, Soil-resistant
- Part of the Sustain™ portfolio, and meets the most stringent sustainability compliance standards today

**COLORS** Due to printing limitations, shade may vary from actual product.



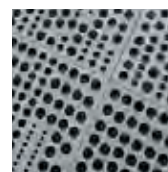
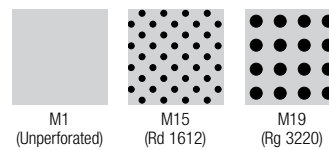
Part of the Sustain portfolio, meeting sustainability compliance standards. (M1 – unperforated panels only)

**DETAILS**



1. MetalWorks™ Tegular unperforated

**PERFORATION OPTIONS** (1:2 scale shown)



*Custom Perforations Available*



# METALWORKS™ for DESIGNflex™

Now in  
Shapes!

Tegular  
smooth texture

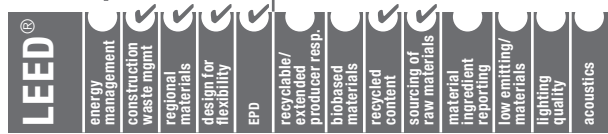
Declare™  
Living Building  
Challenge Compliant

SUSTAIN™  
High Performance  
Sustainable  
Ceiling Systems  
Unperforated (M1)



UP TO 80% RECYCLED CONTENT

For LEED contribution contact TechLine



## VISUAL SELECTION

Edge Profile	Item No. ♦	Dimensions Nominal W x L (Inches) Custom Sizes Available	Perforations	
<b>METALWORKS Square Tegular (with acoustical fleece)</b>				
	6647	6" x 6"	M1, M15, M19	
	6648	6" x 12"	M1, M15, M19	
	6649	6" x 48"	M1, M15, M19	
	6650	6" x 60"	M1, M15, M19	
	6643	12" x 48"	M1, M15, M19	
	8225	12" x 60"	M1, M15, M19	
	6641	24" x 24"	M1, M15, M19	
	6644	24" x 42"	M1, M15, M19	
	6642	24" x 48"	M1, M15, M19	
	8226	24" x 60"	M1, M15, M19	
	8227	24" x 72"	M1, M15, M19	
	6645	27" x 30"	M1, M15, M19	
	8228	28" x 30"	M1, M15, M19	
	8229	28" x 60"	M1, M15, M19	
	6646	30" x 30"	M1, M15, M19	
	<b>Size Capabilities</b>			
	9/16" Square Tegular	<b>Width</b>	<b>Length</b>	
		5/16" Thick	M1, M15, M19	
		4" – 29-1/2"	4" – 60"	
		30" – 35-1/2"	4" – 36"	
		36" – 41-1/2"	4" – 30"	
	42" – 48"	4" – 24"		

♦ When specifying or ordering, include the appropriate perforation, letter color, and, if needed, coating suffix with the item number (e.g., 6646 M1 WHA).  
NOTE: Order any dimension at [asquote@armstrongceilings.com](mailto:asquote@armstrongceilings.com)

## PERFORMANCE

Dots represent high level of performance.

Light Reflect	Wash	Scrub	Soil	Durability		
				(White Only)		
0.75 (M1)	•	•	•			
0.75 (M1)	•	•	•			
0.75 (M1)	•	•	•			
0.75 (M1)	•	•	•			
0.75 (M1)	•	•	•			
0.75 (M1)	•	•	•			
0.75 (M1)	•	•	•			
0.75 (M1)	•	•	•			
0.75 (M1)	•	•	•			
0.75 (M1)	•	•	•			
0.75 (M1)	•	•	•			
0.75 (M1)	•	•	•			
0.75 (M1)	•	•	•			
0.75 (M1)	•	•	•			

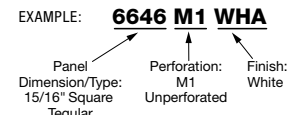
## ACOUSTICAL INFORMATION

LOCATION DEPENDENT

WITH INFILL PANEL

Perforation	NRC with acoustical fleece	NRC with 1" fiberglass infill **
	NRC	NRC
<b>M1</b>	-	-
<b>M15</b>	0.70	0.90
<b>M19</b>	0.75	0.90

\*\* Maximum NRC achieved with acoustical infill (item 8200T10).

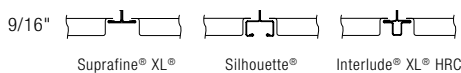


## ACCESSORIES

Item No. ♦	Description	Colors	Dimensions (Inches)	Pieces/Carton
6099_♦	Edge Cap for Cut Tegular Panels for 9/16" suspension systems	MY, SG, WH, BL	Nominal 24" length	50
5823	BioAcoustic™ Infill Panel (Black – Matte)	-	24 x 24 x 5/8"	12
8200T10	1" Fiberglass Infill Bag (Black – Gloss)	-	24 x 24"	12

♦ When specifying or ordering, include the appropriate 2-letter color suffix with the item number (e.g., 6098 B L).

## SUSPENSION SYSTEMS



## PARTNER COMPANIES

For more information on our partner companies, please visit [armstrongceilings.com/partners](http://armstrongceilings.com/partners)

Compatible with:  
Axis Geometrix™ Lighting,  
JLC-Tech FLEX T-BAR LED  
Lights and Price diffusers.



Shaped infill panels are available through [asquote@armstrongceilings.com](mailto:asquote@armstrongceilings.com) for specific partner lighting fixtures.

## PHYSICAL DATA

**Material**  
Aluminum – 0.040" thickness

**Surface Finish**  
Factory-applied polyester paint finish  
Custom colors also available. Contact TechLine for custom color matching requests at 1 877 276-7876.

**Fire Performance**  
Painted aluminum tested per ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. Laminate finishes tested per ASTM E84. Flame Spread Index 75 or less. Smoke Developed Index 450 or less.

**Acoustical Performance**  
CAC testing conducted using Prelude® XL® for 15/16" edge detail and Silhouette® for 9/16" edge detail.

**ASTM E1264 Classification**  
Fire Class – Class A  
Unperforated – Type XX, Pattern G  
Perforated – Type XX, Pattern C

**Design Considerations**  
Silverlume and Gun Metal finishes are directional, marked with arrows from the factory. Visit [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery) to see pre-designed patterns and colors.

**Seismic Restraint**  
MetalWorks™ Tegular panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

**Warranty**  
Details at [armstrongceilings.com/warranty](http://armstrongceilings.com/warranty)

**Weight; Square Feet/Carton (Bulk Packed)**  
6647 – 0.138 lbs/SF  
6648 – 0.275 lbs/SF  
6649 – 1.100 lbs/SF  
6650 – 1.375 lbs/SF  
6641, 6643 – 2.200 lbs/SF  
8225 – 2.750 lbs/SF  
6644 – 3.850 lbs/SF  
6642 – 4.400 lbs/SF  
8226 – 5.500 lbs/SF  
8227 – 6.600 lbs/SF  
6645 – 3.094 lbs/SF  
8228 – 3.208 lbs/SF  
8229 – 6.417 lbs/SF  
6646 – 3.438 lbs/SF

TechLine / 1 877 276-7876  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)  
(search: metalworks for designflex)  
BPCS-5840-1218

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of International Living Future Institute  
All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2018 AWI Licensing LLC  
Printed in the United States of America



**Personalize Your Design!**  
Mix and match different sizes, shapes, colors, and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



WoodWorks® Shapes for DESIGNFlex™ right triangles in Natural Variations™ Walnut and Walnut Espresso

Now, WoodWorks® Shapes in 45° and 60° triangles, parallelograms, and trapezoids with perforations for Total Acoustics Performance™.

**KEY SELECTION ATTRIBUTES**

- new** Get a custom, one-of-a-kind look with standard WoodWorks® Shapes without custom lead times
- new** Add Ultima® Shapes Lay-in acoustic infill panels to get total noise control and design versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance™
- Mix and match – Shapes also available with Calla®, Lyra®, Ultima®, Optima®, and MetalWorks™ panels
- Create a cohesive look with:
  - TechZone® systems
  - Shaped lighting and diffusers
  - JLC-Tech T-BAR FLEX™ LED Light
- All clips and safety accessories included and shipped with panels

**VENEERS** The grain direction runs parallel to the main beam in the suspension system. Due to printing limitations, shade may vary from actual product.

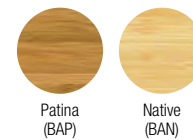
**Natural Variations™**  
(Real Wood Veneers)



**Constants™**  
(Real Wood Veneers)

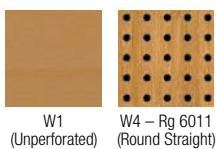


**Bamboo\***

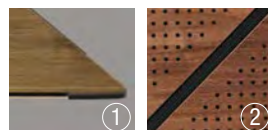


\* Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

**PERFORATION OPTIONS** (1:2 scale shown)



**DETAILS**



1. Edge of panel with gasket shown
2. Intersection detail of triangles shown

**LEED®**

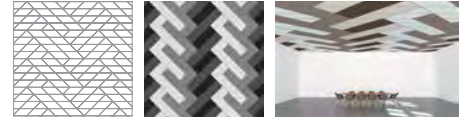
- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- FSC (for wood)
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

WITH INFILL PANEL

Start your design process with a visit to our online pattern gallery at: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery)

See dozens of pre-designed patterns and colors online in our pattern gallery. We've provided all of the details – from takeoffs showing 2' or 4' on-center spacing to panels, suspension, trims, and accessories. Installation instructions answer questions typically associated with unique ceiling installations. Lighting and air diffusers can also be easily integrated. If you can't find the ceiling pattern you envision for your next space online, call us and we'll help you create a design to personalize your space – 1 877 276-7876.



These 9 WoodWorks® Shapes with Tegular edges are available for Suprafine® XM 9/16" suspension systems:

45° SHAPES		60° SHAPES	
Item No.	Description/Dimensions (Inches)	Item No.	Description/Dimensions (Inches)
<b>Triangles</b>			
<b>2' Main Beam Spacing</b>			
<b>8271</b>	Triangle	<b>8277</b>	Triangle
Panel 3/4" thick		Panel 3/4" thick	
<b>8272</b>	Right Triangle – Right		
Panel 3/4" thick			
<b>8282</b>	Right Triangle – Left		
Panel 3/4" thick			
<b>Parallelograms</b>			
<b>2' Main Beam Spacing</b>			
<b>8274</b>	Right Parallelogram	<b>8279</b>	Right Parallelogram
Panel 3/4" thick		Panel 3/4" thick	
<b>8275</b>	Left Parallelogram	<b>8280</b>	Left Parallelogram
Panel 3/4" thick		Panel 3/4" thick	
<b>Trapezoids</b>			
No Trapezoids available in 45° shapes			
<b>2' Main Beam Spacing</b>			
<b>8281</b>	Trapezoid		
Panel 3/4" thick			

**ACOUSTICAL INFORMATION**

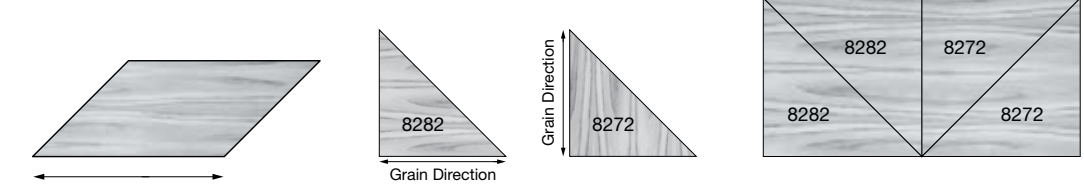
Performance determined by perforation size

Item No. ♦	Ultima® Lay-in Shapes Infill Panel Item #	Fleece Only			Total Acoustics¹
		NRC	NRC	CAC	
8271W4	100319	0.65	0.70	35	BETTER
8272W4	100326	0.60	0.65	32	-
8282W4	100326	0.60	0.65	32	-
8277W4	100320	0.65	0.70	32	-
8279W4	100332	0.65	0.70	35	BETTER
8280W4	100333	0.65	0.70	35	BETTER
8281W4	100328	0.65	0.70	35	BETTER

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+)  
**BETTER** (NRC 0.70-0.75; CAC 35+)  
**BEST** (NRC 0.80+; CAC 35+)

♦ When specifying or ordering, include the appropriate 2-digit perforation and 3-letter color suffixes (e.g. 8277W 1 N Q K).

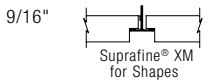
**GRAIN DETAIL – All Shapes**



NOTE: To ensure consistent grain direction on Right Triangles, both items 8272 and 8282 will need to be ordered and alternated.

Wood grain runs parallel to main beam

**SUSPENSION SYSTEMS**



Suspension systems are available in custom colors or our standard black and metallic colors, which complement all WoodWorks® finishes.



# WOODWORKS® Shapes for DESIGNflex™

Tegular

UP TO **75%** RECYCLED CONTENT

For LEED contribution contact TechLine

LEED	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	FSC (for wood)	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	----------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

WITH INFILL PANEL

## SUSPENSION SYSTEM COMPONENTS

System utilizes Suprafine® XL® main beams

Use with Suprafine® XL® Heavy Duty Main Beam – item 7501 (Pgs. 160-161) and Molding.

### 45° SHAPES

Item No.	Description
<b>75AB45L</b>	Suprafine® 45° Left Angle Bracket
<b>75AB45R</b>	Suprafine® 45° Right Angle Bracket
<b>75AB45D</b>	Suprafine® 45° Double Angle Bracket
<b>75CB45</b>	Suprafine® 45° Corner Bracket
<b>XM754524</b>	Suprafine® 45° Base Cross Tee – 24" Main Beam Spacing
<b>XL7520</b>	24" Suprafine® Cross Tee
<b>XM7524</b>	Suprafine® Perimeter Cross Tee – 24" Main Beam Spacing
<b>PCC</b>	Axiom® Perimeter Corner Clip
<b>PAC</b>	Perimeter Angle Clip
<b>BERC2</b> <b>FZBERC2</b>	2" Beam End Retaining Clip

### 60° SHAPES

Item No.	Description
<b>75AB60L</b>	Suprafine® 60° Left Angle Bracket
<b>75AB60R</b>	Suprafine® 60° Right Angle Bracket
<b>75AB60D</b>	Suprafine® 60° Double Angle Bracket
<b>XM756024</b>	Suprafine® 60° Base Cross Tee – 24" Main Beam Spacing
<b>XM7524</b>	Suprafine® Perimeter Cross Tee – 24" Main Beam Spacing
<b>PCC</b>	Axiom® Perimeter Corner Clip
<b>PAC</b>	Perimeter Angle Clip
<b>BERC2</b> <b>FZBERC2</b>	2" Beam End Retaining Clip

For information on components, trims, and clips, please consult the full installation instructions at [www.armstrongceilings.com/shapesinstallation](http://www.armstrongceilings.com/shapesinstallation)  
For additional product details see Pgs. 160-161.

### ACCESSORIES

Item No. ♦	Description	Dimensions (Inches) Nominal W x L x H	Color	Pcs/ Ctn
<b>6044*</b>	Tegular Border Clip	–	–	Varies
<b>7199*</b>	Stabilizer Clip	–	–	Varies
<b>6045*</b>	Wafer Head Screw	–	–	Varies
<b>5659W1_ _ _</b>	4" WoodWorks® Trim (with aluminum substrate)	4" x 120"	See Colors on Page 252	6
<b>5660W1_ _ _</b>	6" WoodWorks® Trim (with aluminum substrate)	6" x 120"	See Colors on Page 252	6
<b>FXTBC</b>	T-Bar Connector Clip	–	–	10
<b>FXSPLICE</b>	Splice Plate with Set Screws	–	–	10
<b>AX4SPLICEB**</b>	Axiom® Splice Plate	–	–	1
<b>6408_ _ _</b>	3/4" Edge Banding	3/4" x 300"	See Colors on Page 252	–
<b>BP5870_ _ _</b>	WoodWorks® Touch-Up Kit	–	BAN, BAP, CCY, CMA, CRW, CWA, NBE, NDC, NLC, NMP, NOK, NWN, NWE	1
<b>BP8112C03T12W3BL</b>	Square Foam Tape Gasket	75 LF/roll	BL	1

\* Accessories are included and shipped in crate with the panels. Quantity is determined by manufacturer. Spares will be available.

\*\* Order when angle tees intersect with corner of Axiom® or WoodWorks® trim.

♦ When specifying or ordering, include the appropriate 3-letter color suffixes (e.g. 8277W 1 N Q K).

157C

TechLine 877 276-7876  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



DESIGNflex™ SHAPES





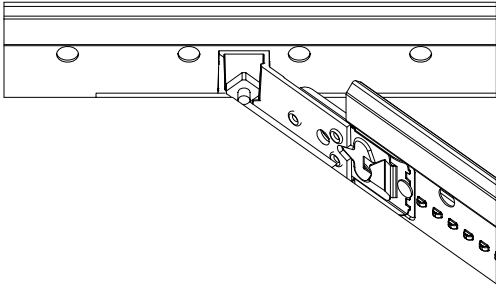
LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	FSC (for wood)	recycled content	sourcing of raw materials	material ingredient reporting	low emitting/materials	lighting quality	acoustics

▲ LOCATION DEPENDENT

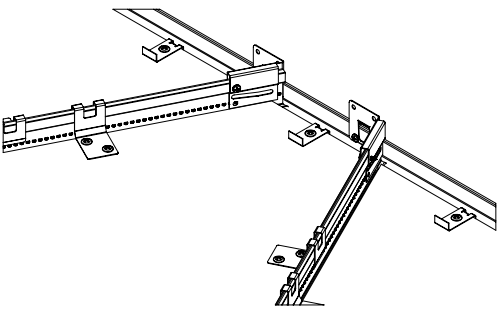
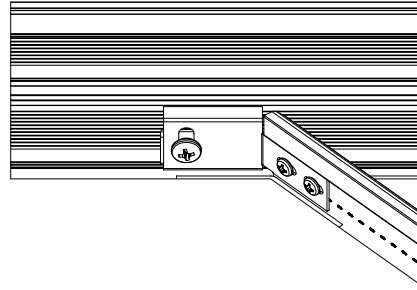
▲ WITH INFILL PANEL

**DETAILS**

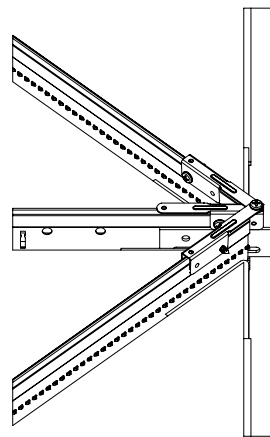
**Tegular Panel installed with Angle Bracket connecting Suprafine® XM Cross Tee and Main Beam**



**Full-size Tegular Panel Axiom® Trim Perimeter Solution, using AXTBC Clip**



**Cut Tegular Shapes Border Panel with Wall Molding, Tegular Border Clips, and Stabilizer Clips**



Perimeter Angle Clips (PACs) are used when multiple Tees intersect with Wall Molding

**PARTNER COMPANIES** For more information on our partner companies, please visit [armstrongceilings.com/partners](http://armstrongceilings.com/partners)

Compatible with:  
Axis Geometrix™ Lighting,  
JLC-Tech T-BAR FLEX™ LED  
Lights and Price diffusers.



Shaped infill panels are available through [ASQuote@armstrongceilings.com](mailto:ASQuote@armstrongceilings.com) for Axis lighting fixtures.

**SUSPENSION SYSTEMS**

9/16"



Suspension systems are available in custom colors or our standard black and metallic colors, which complement all WoodWorks® finishes.

**PHYSICAL DATA**

**Material**

Fire-retardant particle board with face-cut veneers; FSC® certified fire-retardant particle board is available as special request. Please contact [ASQuote@armstrongceilings.com](mailto:ASQuote@armstrongceilings.com) for more information.

**Surface Finish**

Clear or tinted semi-gloss coating

**Fire Performance**

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics.

Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

**Installation Considerations**

See installation instructions for bracket and perimeter solution guidelines.

**Acoustical Performance**

W4 Perforation includes standard Acoustic fleece backer. For increased sound blocking (CAC), Ultima® Shapes lay-in panels can be installed as an acoustic infill panel above the WoodWorks® panel. Please note, this will add 7/8" height on the back of the board, which might impact MEP integration.

**Design Considerations**

WoodWorks® Shapes for DESIGNFlex™ installation system based on parallel main beam spacing. For optimum visual design, backlighting panels is not recommended. Graining of wood is parallel to the base of the panels and main beams in the system.

For dynamic and interesting wood graining, Natural Variations™ finishes are recommended. When a more consistent visual is appropriate, Constants™ finishes are recommended.

Lighting affects the visual of WoodWorks finish.

**Application Considerations**

Variation among panels may occur due to the natural characteristics of the wood and grain. It is very important that WoodWorks panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

**Seismic Restraint**

Suprafine® XM for DESIGNFlex™ Shapes suspension system has been engineered, tested, and approved for use with DESIGNFlex™ Shapes panels when installed per Armstrong Ceilings installation instructions.

**Warranty**

Details at [armstrongceilings.com/warranty](http://armstrongceilings.com/warranty)

**Weight/Panel (Bulk Packed, 64 SF Min. Order Quantity)**  
Panels – 2.75 lbs/SF

**new** PRELUDE<sup>®</sup> XM  
for DESIGNFlex<sup>™</sup>  
15/16" Exposed Tee System



**SUSTAIN<sup>™</sup>**  
High Performance  
Sustainable  
Ceiling Systems



**DESIGNFlex<sup>™</sup>**  
A New World of Choice  
for Ceiling Systems

**DESIGNFlex<sup>™</sup>**  
CEILING SYSTEMS



SHAPES



SIZES



COLOR


**Personalize Your Design!**

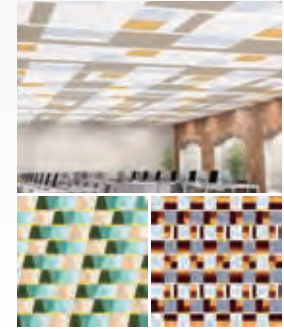
Mix and match different sizes, shapes, colors, and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



Prelude<sup>®</sup> XM for DESIGNFlex<sup>™</sup>

**KEY SELECTION ATTRIBUTES**

- **DESIGNFlex<sup>™</sup>** options mean tailor-made shapes, sizes, and colors with shorter lead times
- **Prelude<sup>®</sup> XM** is part of the Sustain<sup>™</sup> portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain<sup>™</sup> colors only
- **PeakForm<sup>®</sup>** profile increases strength and stability for improved performance during installation 
- Hot-dipped galvanized coating inhibits red rusting better than electrogalvanized or painted systems
- 1-11/16" web height keeps components vertical and stable at light fixture interface
- 10-Year Limited System Warranty; 30-Year Limited Ceiling Systems Warranty when used with **HumiGuard<sup>®</sup> Plus** products



**COLOR AND FINISH SELECTION**

Standard



White (WH)



Tech Black (BL)



Silver Grey (SG)



Gun Metal Grey (MY)



Available in any color!

**VISUAL SELECTION**

Item No. ♦	Face Profile	Description	Roof Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./Lin. Ft.
<b>Compatible Prelude<sup>®</sup> XL<sup>®</sup> Components</b>					
7301__	15/16"	12' HD Main Beam	6" O.C.	144 x 15/16 x 1-11/16"	16.73
7300__	15/16"	12' ID Main Beam	6" O.C.	144 x 15/16 x 1-11/16"	13.5
XL7341__	15/16"	4' Cross Tee		48 x 15/16 x 1-11/16"	16.89
XL8320__	15/16"	2' Cross Tee		24 x 15/16 x 1-11/16"	61.33 @ 2'
<b>Prelude<sup>®</sup> XM Cross Tees</b>					
XM734548__	15/16"	45° Cross Tee – 48" Main Beam Spacing		64.366 x 15/16 x 1-11/16"	–
XM736048__	15/16"	60° Cross Tee – 48" Main Beam Spacing		49.510 x 15/16 x 1-11/16"	–
XM737548__	15/16"	75° Cross Tee – 48" Main Beam Spacing		41.611 x 15/16 x 1-11/16"	–
<b>Prelude<sup>®</sup> XM Perimeter Cross Tees</b>					
XM7348__	15/16"	Perimeter Cross Tee – 48" Main Beam Spacing		68 x 15/16 x 1-11/16"	–

**PERFORMANCE**

Fire Guard <sup>™</sup>	Seismic Category
	

Dots represent high level of performance.

**PACKAGING**

Pcs./Ctn.	Lin. Ft./Ctn.
20	240
20	240
60	240
60	120
20	107.277
60	247.55
60	208.305
20	113.3

♦ When specifying or ordering, add 2-letter color suffix to item number.  
\* 13 Sustain<sup>™</sup> colors can be found in the Suspension Systems section of this catalog – Pg. 449.



# PRELUDE<sup>®</sup> XM for DESIGNflex<sup>™</sup> 15/16" Exposed Tee System

**Declare<sup>SM</sup>**  
Living Building  
Challenge Compliant



**SUSTAIN<sup>SM</sup>**  
High Performance  
Sustainable  
Ceiling Systems

UP TO **25%** RECYCLED CONTENT

**LEED<sup>®</sup>**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

LOCATION DEPENDENT

## PERFORMANCE

## PACKAGING

Item No. ◆	Face Profile	Description	Roof Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./Lin. Ft.	Fire Guard <sup>™</sup>	Seismic Category	Pcs./ Ctn.	Lin. Ft./ Ctn.
<b>Prelude<sup>®</sup> XM Angle Brackets</b>									
73AB45L_	15/16"	45° Left Angle Bracket	-	-	-	-	-	10	-
73AB45R_	15/16"	45° Right Angle Bracket	-	-	-	-	-	10	-
73AB45D_	15/16"	45° Double Angle Bracket	-	-	-	-	-	10	-
73AB60L_	15/16"	60° Left Angle Bracket	-	-	-	-	-	10	-
73AB60R_	15/16"	60° Right Angle Bracket	-	-	-	-	-	10	-
73AB60D_	15/16"	60° Double Angle Bracket	-	-	-	-	-	10	-
73AB75L_	15/16"	75° Left Angle Bracket	-	-	-	-	-	10	-
73AB75R_	15/16"	75° Right Angle Bracket	-	-	-	-	-	10	-
73AB75D_	15/16"	75° Double Angle Bracket	-	-	-	-	-	10	-
<b>Prelude<sup>®</sup> XM Corner Bracket</b>									
73CB45_	15/16"	45° Corner Bracket	-	-	-	-	-	10	-

Item No.	Description	Length	(A) Flange	(B) Height	(C) Reveal	(D) Reveal	Pcs./ Ctn.	LFT/ Ctn.
<b>Suggested Wall Moldings and Shadow Moldings</b>								
7800_	12' Hemmed Angle Molding	144"	7/8"	7/8"	-	-	30	360
HD7801_	10' Hemmed Angle Molding	120"	7/8"	7/8"	-	-	30	300
7877_	10' Seismic Shadow Molding	120"	15/16"	15/16"	1/4"	-	30	300
7888_	10' Hemmed Shadow Molding	120"	15/16"	15/16"	1/4"	-	30	300

◆ When specifying or ordering, add 2-letter color suffix to item number. \* To derive maximum lbs/SF, divide the on-center spacing of the component into the lbs/LF given in the load test data table.

## ACCESSORIES

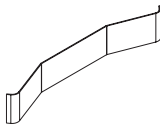
**2" Beam End Retaining Clip**

BERC2 – 200 pcs



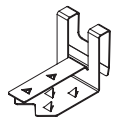
**Spring Border Clip**

7870 – 1000 pcs



**Optima<sup>®</sup> Stabilizer Clip**

435A – 50 pcs



**Prelude<sup>®</sup> XL MAX<sup>®</sup> Hold Down Clip**

PMHDC – 100 pcs



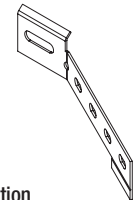
**Perimeter Angle Clip**

PAC – 50 pcs



**Axiom<sup>®</sup> Perimeter Corner Clip**

PCC – 10 pcs



For additional suspension components and clips, please consult the full installation instructions at [www.armstrongceilings.com/shapesinstallation](http://www.armstrongceilings.com/shapesinstallation)

## SEISMIC PERFORMANCE

**Main Beams**

7300, 7301

**Minimum Lbs. To Pull Out Compression/Tension**

335.0

**Cross Tees**

All XM and XL meet or exceed 180lbs in compression/tension

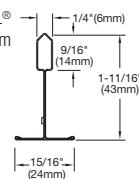
**ICC Reports**

For areas under ICC jurisdiction, see ICC evaluation report number 1308 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The report is subject to reexamination, revisions and possible cancellation.

## DETAILS

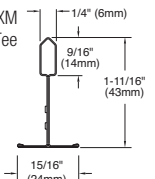
PRELUDE<sup>®</sup> XM<sup>®</sup>

Main Beam

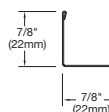


PRELUDE<sup>®</sup> XM<sup>®</sup>

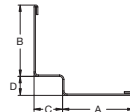
Cross Tee



7/8" Hemmed Angle Molding



Shadow Molding



## PHYSICAL DATA

**Material**

Hot-dipped galvanized steel

**Surface Finish**

Baked polyester paint or powder coated  
Manufactured and tested in accordance with ASTM C635

**Face Dimension**

15/16"

**Profile**

Exposed tee

**Cross Tee/Main Beam Interface**

Override

**End Detail**

Main Beam: Staked-on clip

Cross Tee: Staked-on hook clip

**Duty Classification**

Intermediate or Heavy-duty

TechLine / 1 877 276 7876  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)  
(search: prelude)  
BPCS-5841-718

All product names are trademarks, registered trademarks, or service marks of their respective owners. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates.  
© 2018 AWI Licensing LLC Printed in the United States of America

**Armstrong<sup>®</sup>**  
CEILING & WALL SOLUTIONS

159

**new** SUPRAFINE® XM  
for DESIGNFlex™  
9/16" Exposed Tee System



**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems



**DESIGNFlex™**  
A New World of Choice  
for Ceiling Systems

**DESIGNFlex™**  
CEILING SYSTEMS



SHAPES

SIZES

COLOR


**Personalize Your Design!**

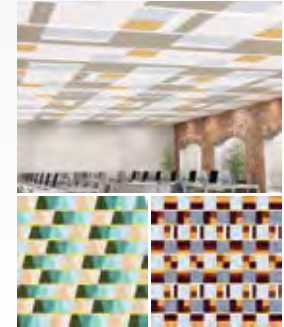
Mix and match different sizes, shapes, colors, and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



Suprafine® XM for DESIGNFlex™

**KEY SELECTION ATTRIBUTES**

- **DESIGNFlex™** options mean tailor-made shapes, sizes, and colors with shorter lead times
- **Suprafine® XM** is part of the **Sustain™** portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain colors only
- **PeakForm®** profile increases strength and stability for improved performance during installation 
- Hot-dipped galvanized coating inhibits red rusting better than electrogalvanized or painted systems
- 1-11/16" web height keeps components vertical and stable at light fixture interface
- 10-Year Limited System Warranty



**COLOR AND FINISH SELECTION**

Standard



White (WH)



Tech Black (BL)



Silver Grey (SG)



Gun Metal Grey (MY)





Available in any color!

**VISUAL SELECTION**

Item No. ♦	Face Profile	Description	Rout Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./Lin. Ft.
<b>Compatible Suprafine® XL® Components</b>					
7501__	9/16"	12' HD Main Beam	6" O.C.	144 x 9/16 x 1-11/16"	16.86 @ 4'
7500__	9/16"	12' ID Main Beam	6" O.C.	144 x 9/16 x 1-11/16"	12.75 @ 4'
XL7549__	9/16"	4' Cross Tee	–	48 x 9/16 x 1-11/16"	16.42 @ 4'
XL7520__	9/16"	2' Cross Tee	–	24 x 9/16 x 1-11/16"	51.83 @ 2'
<b>Suprafine® XM Cross Tees</b>					
XM754524__	9/16"	Suprafine 45° Cross Tee – 24" Main Beam Spacing	–	30.425 x 9/16 x 1-11/16"	–
XM754548__	9/16"	Suprafine 45° Cross Tee – 48" Main Beam Spacing	–	64.366 x 9/16 x 1-11/16"	–
XM756024__	9/16"	Suprafine 60° Cross Tee – 24" Main Beam Spacing	–	22.677 x 9/16 x 1-11/16"	–
XM756048__	9/16"	Suprafine 60° Cross Tee – 48" Main Beam Spacing	–	49.510 x 9/16 x 1-11/16"	–
XM757524__	9/16"	Suprafine 75° Cross Tee – 24" Main Beam Spacing	–	16.923 x 9/16 x 1-11/16"	–
XM757548__	9/16"	Suprafine 75° Cross Tee – 48" Main Beam Spacing	–	41.611 x 9/16 x 1-11/16"	–
<b>Suprafine® XM Perimeter Cross Tees</b>					
XM7524__	9/16"	Suprafine Perimeter Cross Tee – 24" Main Beam Spacing	–	34 x 9/16 x 1-11/16"	–
XM7548__	9/16"	Suprafine Perimeter Cross Tee – 48" Main Beam Spacing	–	68 x 9/16 x 1-11/16"	–

♦ When specifying or ordering, add 2-letter color suffix to item number.  
\* 13 Sustain™ colors can be found in the Suspension Systems section of this catalog – Pg. 449.

**PERFORMANCE**

Fire Guard™	Seismic Category
	
Dots represent high level of performance.	

–	•
–	•
–	•
–	•
–	•
–	•
–	•
–	•
–	•
–	•
–	•
–	•
–	•
–	•
–	•
–	•

**PACKAGING**

Pcs./ Ctn.	Lin. Ft./ Ctn.
20	240
20	240
60	240
60	120
60	169.705
20	113.137
60	134.165
60	268.330
60	84.615
60	208.305
60	170
20	113.3



# SUPRAFINE<sup>®</sup> XM for DESIGNflex<sup>™</sup> 9/16" Exposed Tee System

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant



SUSTAIN<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO **63%** RECYCLED CONTENT

LEED<sup>®</sup>

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- low embodied materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

LOCATION DEPENDENT

## PERFORMANCE

## PACKAGING

Item No. ◆	Face Profile	Description	Row Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./Lin. Ft.	Fire Guard <sup>™</sup>	Seismic Category	Pcs./Ctn.	Lin. Ft./Ctn.
<b>Suprafine<sup>®</sup> XM Angle Brackets</b>									
75AB45L_ _	9/16"	Suprafine 45° Left Angle Bracket	-	-	-	-	-	10	-
75AB45R_ _	9/16"	Suprafine 45° Right Angle Bracket	-	-	-	-	-	10	-
75AB45D_ _	9/16"	Suprafine 45° Double Angle Bracket	-	-	-	-	-	10	-
75AB60L_ _	9/16"	Suprafine 60° Left Angle Bracket	-	-	-	-	-	10	-
75AB60R_ _	9/16"	Suprafine 60° Right Angle Bracket	-	-	-	-	-	10	-
75AB60D_ _	9/16"	Suprafine 60° Double Angle Bracket	-	-	-	-	-	10	-
75AB75L_ _	9/16"	Suprafine 75° Left Angle Bracket	-	-	-	-	-	10	-
75AB75R_ _	9/16"	Suprafine 75° Right Angle Bracket	-	-	-	-	-	10	-
75AB75D_ _	9/16"	Suprafine 75° Double Angle Bracket	-	-	-	-	-	10	-
<b>Suprafine<sup>®</sup> XM Corner Bracket</b>									
75CB45_ _	9/16"	Suprafine 45° Corner Bracket	-	-	-	-	-	10	-
75CB60L_ _	9/16"	Suprafine 60° Left Corner Bracket	-	-	-	-	-	10	-
75CB60R_ _	9/16"	Suprafine 60° Right Corner Bracket	-	-	-	-	-	10	-

Item No. ◆	Description	Length	(A) Flange	(B) Height	(C) Reveal	(D) Reveal	Pcs./Ctn.	LFT/Ctn.
<b>Suggested Wall Moldings and Shadow Moldings</b>								
7800_ _	12' Hemmed Angle Molding	144"	7/8"	7/8"	-	-	30	360
HD7801_ _	10' Hemmed Angle Molding	120"	7/8"	7/8"	-	-	30	300
7874_ _	10' Shadow Molding	120"	9/16"	15/16"	1/4"	-	30	300
7889_ _	10' Hemmed Shadow Molding	120"	9/16"	15/16"	3/8"	1/4"	30	300
7877_ _	10' Seismic Shadow Molding	120"	15/16"	15/16"	1/4"	-	30	300
7804_ _	12' Hemmed Angle Molding	144"	9/16"	7/8"	-	-	30	360

◆ When specifying or ordering, add 2-letter color suffix to item number. \* To derive maximum lbs/SF, divide the on-center spacing of the component into the lbs/LF given in the load test data table.

## ACCESSORIES

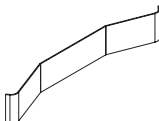
2" Beam End Retaining Clip

BERC2 - 200 pcs



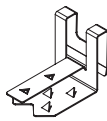
Spring Border Clip

7870 - 1000 pcs



Optima<sup>®</sup> Stabilizer Clip

435A - 50 pcs



Prelude<sup>®</sup> XL MAX<sup>®</sup> Hold Down Clip

PMHDC - 100 pcs



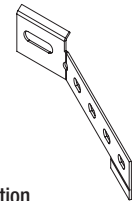
Perimeter Angle Clip

PAC - 50 pcs



Axiom<sup>®</sup> Perimeter Corner Clip

PCC - 10 pcs



For additional suspension components and clips, please consult the full installation instructions at [www.armstrongceilings.com/shapesinstallation](http://www.armstrongceilings.com/shapesinstallation)

## SEISMIC PERFORMANCE

Main Beams  
7500, 7501

Minimum Lbs. To Pull Out Compression/Tension  
335.0

Cross Tees

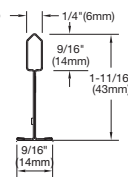
All XM and XL cross tees meet or exceed 180 lbs. in compression/tension

## ICC Reports

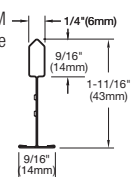
For areas under ICC jurisdiction, see ICC evaluation report number 1308 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The report is subject to reexamination, revisions and possible cancellation.

## DETAILS

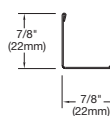
SUPRAFINE<sup>®</sup> Main Beam



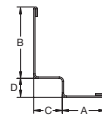
SUPRAFINE<sup>®</sup> XM Cross Tee



7/8" Hemmed Angle Molding



Shadow Molding



## PHYSICAL DATA

Material

Hot-dipped galvanized steel

Surface Finish

Baked polyester paint or anodized  
Manufactured and tested in accordance with ASTM C635

Face Dimension

9/16"

Profile

Exposed tee

Cross Tee/Main Beam Interface

Override

End Detail

Main Beam: Staked-on clip

Cross Tee: Staked-on hook clip

Duty Classification

Intermediate or Heavy-duty

TechLine / 1 877 276-7876  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)  
(search: suprafine)  
BPCS-6105-519

All product names are trademarks, registered trademarks, or service marks of their respective owners. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates.  
© 2019 AWI Licensing LLC Printed in the United States of America

# Create Better Spaces with Total Acoustics™, Sustain™, & DESIGNFlex™



**TOTAL ACOUSTICS™**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)

## NRC + CAC = Total Acoustics

Total Acoustics™ ceilings have an ideal combination of noise reduction and sound-blocking performance in one panel with a minimum NRC of 0.60 and CAC of 35. Now, whether you're creating a space for quiet concentration, collaboration, or confidentiality, one panel meets the needs for today's flexible spaces.

Perforated metal ceilings can provide sound absorption with the addition of mineral fiber or acoustical fleece backing. A continuous MetalWorks™ ceiling with an M3 perforation and acoustical infill panel provides sound absorption (NRC 0.70), reducing reverberation by 82%. See example below. MetalWorks™ perforated panels installed with an acoustical infill panel achieve Total Acoustics performance.

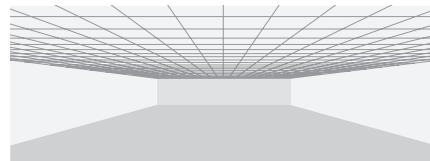
For more details about NRC and CAC, see Pgs. 546-547 in this catalog. Look for the Total Acoustics™ icon on product pages that are part of this portfolio.

### Example:

#### Exposed Structure



#### Continuous Ceiling



5,000 SF Exposed Structure (50' x 100'), 15' to deck, drywall with windows on two sides, commercial carpet

Ceiling	No Treatment (0% Coverage)	Continuous MetalWorks Ceiling with M3 Extra Microperforated panels and acoustical infill panel	Continuous MetalWorks Ceiling with M2 Microperforated panels and 2820 acoustical infill panel
	Exposed Structure	Suspended 60" Below Deck	Suspended 60" Below Deck
<b>NRC</b>	0	0.70	0.80
<b>CAC</b>	0	0.40	0.35
<b>Reverberation Time</b>	3.4 sec	0.6 sec	0.5 sec
<b>RT Improvement</b>	ref	82%	85%
<b>SPL Reduction</b>	ref	-5.0 dB	-6.0 dB

For definitions of acoustical terms, see Pgs. 546-547 in this catalog.



**SUSTAIN™**  
High Performance Sustainable Ceiling Systems

## Clean + Simple = Sustain™

(Free of chemicals of concern per Living Building Challenge Red List)

(Easy to find)

(Meet today's most stringent industry sustainability standards)

Sustain™ ceiling systems contribute to better spaces.

Here's how:

- Are free of Red List Chemicals per the Living Building Challenge 3.0 (including no added formaldehyde)
- Have Health Product Declarations (HPDs) which tell you what's in the products
- Have Environmental Product Declarations (EPDs) which tell you the impact of the products on the environment
- Have Declare® labels (easy reference "nutrition labels")

- Meet California Department of Public Health (CDPH) low emissions standards

Contribute to:

- Living Building Challenge Standards (see details, Pgs. 542-543)
- WELL Building Standard (see details, Pgs. 540-541)
- LEED v4 (including New Materials and Resources credits) (see details, Pgs. 538-539)

Look for the Sustain™ icon on product pages that are part of this portfolio.


## DESIGNFlex™ Ceiling Systems

Reinvent your ceiling with panels in shapes and sizes in your choice of colors, ready to ship in 3 weeks\*. Includes Calla®, Lyra®, Optima®, Ultima®, and MetalWorks™. Visit our online pattern gallery at: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery) to see designs of patterns, palettes, and capabilities today! Look for the DESIGNFlex™ icon on product pages that are part of this portfolio.

\*MetalWorks™ Shapes panels ship in 4-5 weeks depending on color selection



**DESIGNFlex™**  
A New World of Choice for Ceiling Systems



# METAL WORKS

METALWORKS™

# METALWORKS™ Standard Ceilings

## At-a-Glance

you inspire™  
solutions center

helping to bring your one-of-a-kind ideas to life

### STANDARD CEILINGS



METALWORKS™ Tegular Pgs. 174-177



METALWORKS™ Vector® Pgs. 178-179  
for Interior & Exterior Applications



METALWORKS™ Clip-on Pgs. 180-181



METALWORKS™ Concealed Pgs. 182-183



METALWORKS™ Linear Pgs. 184-187  
for Interior & Exterior Applications



METALWORKS™ Mesh Pgs. 188-191



METALWORKS™ Open Cell Pgs. 192-193



METALWORKS™ Plank Pgs. 194-195



METALWORKS™ SecureLock™ Pgs. 196-197



METALWORKS™ Snap-in Pgs. 198-199



METALWORKS™ 3D Pgs. 200-201



METALWORKS™ Tin Pgs. 202-203



METALWORKS™ Torsion Spring Pgs. 204-208  
Spring Interior & Exterior Applications



METALWORKS™ Torsion Spring Pgs. 208A-H  
Spring Shapes



METALWORKS™ Capz™ Pgs. 119-121  
Featured in Direct-to-Deck



SERPENTINA® Vault Pgs. 102-103  
Featured in Clouds & Canopies



SERPENTINA® Waves™ Pgs. 104-107  
Featured in Clouds & Canopies



METALWORKS™



# METALWORKS™ Custom Ceilings

## At-a-Glance

### CUSTOM CEILINGS



METALWORKS™ TorsionSpan™ Pg. 215



METALWORKS™ Torsion Spring Flat & Curved Systems Pg. 215



METALWORKS™ DH700 Flat & Faceted Systems Pg. 212



METALWORKS™ Fastrack Systems Pg. 212



METALWORKS™ RH200 Flat & Curved Systems Pg. 213



METALWORKS™ RH200 for Interior & Exterior Applications Pg. 213



METALWORKS™ RH215 Flat & Faceted Systems Pg. 214



METALWORKS™ Tartan Systems Pg. 214



METALWORKS™ Radial Systems Pg. 213



METALWORKS™ SecureLock™ Plus Pgs. 196-197



SERPENTINA® Classic Featured in Clouds & Canopies Pgs. 100-101



### ICON KEY

Icons are used throughout the catalog to help you quickly identify key products with high level of performance.

### High Acoustics

#### Total Acoustics® (TAC)

**NRC + CAC** Perforated product has both NRC of 0.70 or greater AND CAC of 35 or higher when used with acoustic infill panels.

**NRC** Product has NRC (Noise Reduction Coefficient) 0.70 or greater.

**CAC** Product has CAC (Ceiling Attenuation Class) of 35 or higher.

Sabin measures are noted under canopies and clouds products

### Fire Performance

#### Class A

### High Light Reflectance

Light reflectance of 0.83 or greater.

### Humidity/Sag Resistance

#### HumiGuard® Max

Recommended for areas with maximum humidity including outdoor locations.

#### HumiGuard Plus

Recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Seismic

Category D, E & F

### High Durability

#### Water Repellent

Product resists water allowing for proper cleaning and infection control.

#### Washability

Offers superior wash resistance without compromising panel finish integrity, using a washability tester as per modified ASTM D2486.

#### Scrubability

Withstands up to 150 scrub cycles using a scrubability tester as per modified ASTM D2486.

#### Impact Resistance

Excellent resistance to surface impact as per Falling Ball Test.

#### Scratch Resistance

Excellent resistance to surface scratching, scuffing, or chipping as per Hess Rake Test.

#### Soil Resistance

Excellent resistance to dirt and/or grease for lasting value and performance.

#### Plenum Access

Downward access for panels minimizes panel damage.

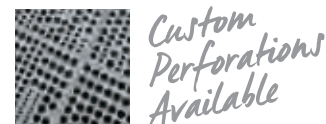
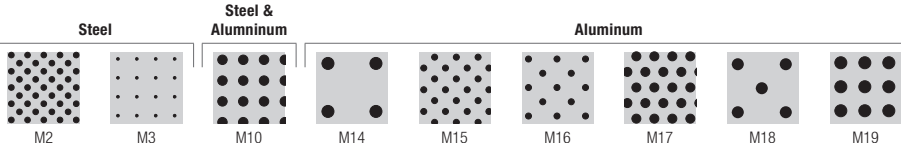
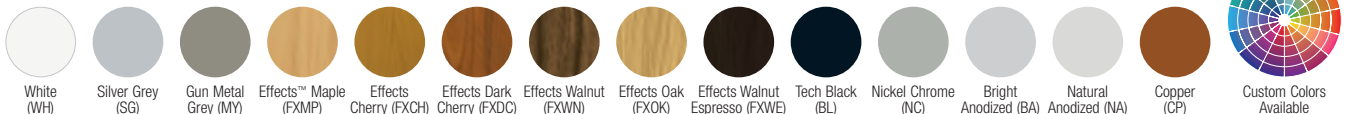
#### Color Availability

Available in color.

#### Sustainability

Product is part of Sustain™ Portfolio and meets the most stringent sustainability compliance standards today.






















### COLORS AND PERFORATIONS For more colors and perforations, see pgs. 168-173.



# METALWORKS™ Standard Ceilings – Steel


















## Standard Finishes

Not all finishes available on all perforations. Consult product page or your Armstrong Ceilings representative for more information.

	Clip-on	Torsion Spring	Concealed	Snap-in	Tegular	Vector®	Linear	Plank	Mesh	SecureLock™	3D	Tin	TorsionSpan™
 White (WH)			✓		✓	✓	✓	✓	✓	✓			
 Silver Grey (SG)			✓		✓	✓	✓	✓	✓	✓			
 Gun Metal Grey (MY)			✓		✓	✓	✓		✓	✓			
 Effects™ Wood Looks Maple (FXMP)					✓	✓	✓						
 Effects Wood Looks Cherry (FXCH)					✓	✓	✓						
 Effects Wood Looks Dark Cherry (FXDC)					✓	✓	✓						
 Effects Wood Looks Walnut (FXWN)					✓	✓	✓						
 Effects Wood Looks Oak (FXOK)					✓	✓	✓						
 Effects Wood Looks Walnut Espresso (FXWE)					✓	✓	✓						
 Tech Black (BL)									✓				
 Nickel Chrome (NC)									✓				
 <span style="color: blue; font-weight: bold; font-size: small;">NEW</span> Antique Nickel (AN)									✓				
 Bright Anodized (BA)									✓				
 Natural Anodized (NA)									✓				
 Copper (CP)									✓				
 Bronze (BZ)									✓				
 Tin White (TWH)												✓	
 Tin Bare Steel (TNA)												✓	
 Tin Lacquered Steel (TLS)												✓	
 Tin Copper (TCP)												✓	
 Custom Colors	✓	✓		✓	✓	✓	✓		✓		✓	✓	

# METALWORKS™ Standard Ceilings – Aluminum

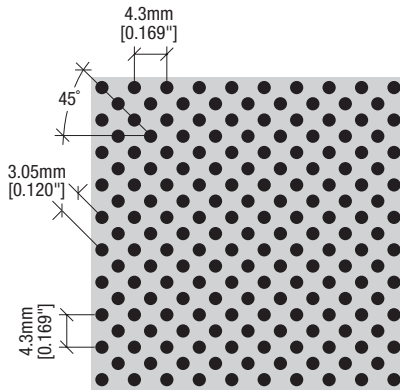
## Standard Finishes

		Clip-on	Torsion Spring	Concealed	Snap-in	Tegular	Vector®	Linear	Plank	Mesh	SecureLock™	3D	Tin	TorsionSpan™
	Whitelume (WHA)	✓	✓		✓							✓		✓
	Silverlume (SIA)	✓	✓		✓							✓		✓
	Gun Metal (MYA)	✓	✓		✓							✓		✓
	Satin Anodized (SAA)	✓	✓		✓									✓
	Lacquer Mill (LMA)	✓	✓		✓									✓
	Brushalume (BAA)	✓	✓		✓									✓
	Reflections™ Arctic Maple (LAM)		✓		✓							✓		✓
	Reflections™ Rock Maple (LRM)		✓		✓							✓		✓
	Reflections Light Cherry (LLC)		✓		✓							✓		✓
	Reflections Natural Maple (LNMPiE)		✓		✓							✓		✓
	Reflections Natural Oak (LNOiE)		✓		✓							✓		✓
	Reflections Mineral Forest (LMF)		✓		✓									✓
	Reflections Walnut (LWN)		✓		✓							✓		✓
	PureWood™ Maple (NMP)		✓											
	PureWood™ Light Cherry (NLC)		✓											
	PureWood™ Dark Cherry (NDC)		✓											
	Custom Colors	✓	✓		✓	✓	✓	✓				✓	✓	

# METALWORKS™

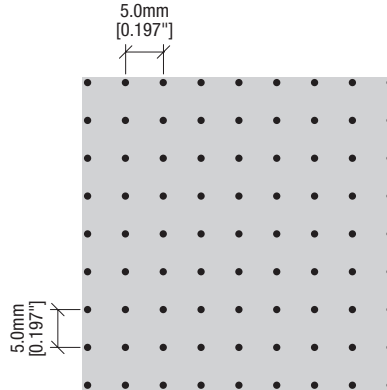
## Perforations

### STANDARD PERFORATIONS Actual 1:1 scale shown unless otherwise noted.



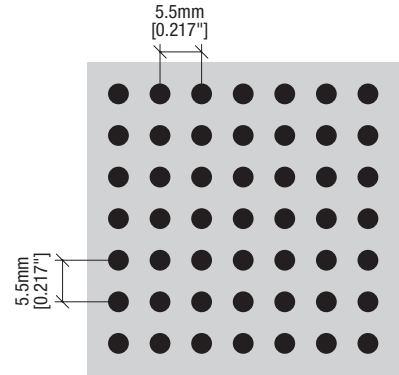
**M2**  
**Microperforated**  
**Rd 1518** | **Type:** Round-Diagonal  
**Hole Size:** 4.3mm [.169"]  
**% Open Area:** 18.0%

**Standard on:** MetalWorks™ Tegular, MetalWorks™ Vector®, MetalWorks Linear, MetalWorks Plank, MetalWorks Canopies, MetalWorks infills for Metaphors Coffers



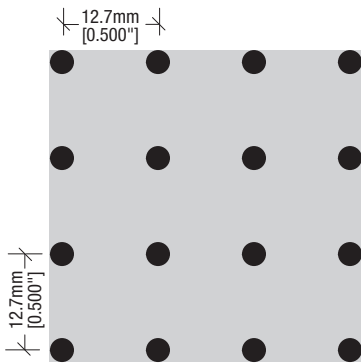
**M3 Extra**  
**Microperforated**  
**Rg 0701** | **Type:** Round-Straight  
**Hole Size:** 5.0mm [.197"]  
**% Open Area:** 1.0%

**Standard on:** MetalWorks Tegular, MetalWorks Vector, MetalWorks Tin, MetalWorks Canopies, MetalWorks Tin infills for Metaphors Coffers



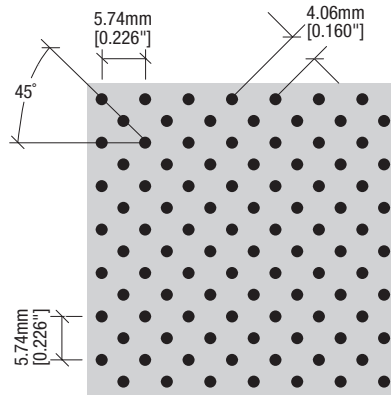
**M10**  
**Rg 2516** | **Type:** Round-Straight  
**Hole Size:** 5.5mm [.217"]  
**% Open Area:** 16.0%

**Standard on:** MetalWorks Capz™, MetalWorks Concealed



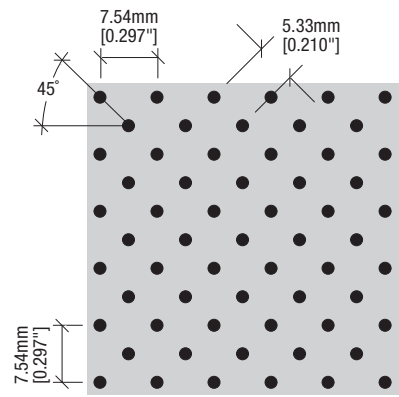
**M14**  
**Rg 3205** | **Type:** Round-Straight  
**Hole Size:** 12.7mm [.500"]  
**% Open Area:** 5.0%

**Standard on:** MetalWorks Torsion Spring, MetalWorks Snap-in, MetalWorks Clip-On



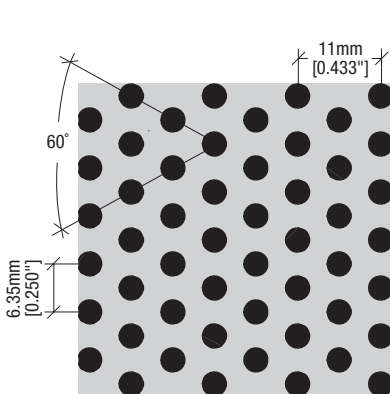
**M15**  
**Rd 1612** | **Type:** Round-Diagonal  
**Hole Size:** 5.74mm [.226"]  
**% Open Area:** 12.0%

**Standard on:** MetalWorks Torsion Spring, MetalWorks Snap-in, MetalWorks Tegular for TechZone™, MetalWorks Blades™, MetalWorks 3D, MetalWorks Clip-On



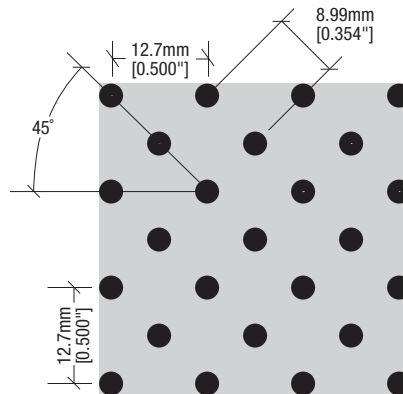
**M16**  
**Rd 1607** | **Type:** Round-Diagonal  
**Hole Size:** 7.54mm [.297"]  
**% Open Area:** 7.0%

**Standard on:** MetalWorks Torsion Spring, MetalWorks Snap-in, MetalWorks Clip-On



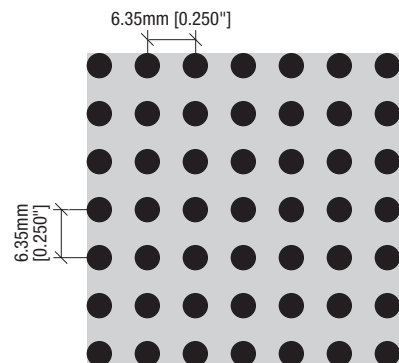
**M17**  
**Rv 3223** | **Type:** Round-Staggered  
**Hole Size:** 11mm [.433"]  
**% Open Area:** 23.0%

**Standard on:** MetalWorks Torsion Spring, MetalWorks Snap-in, MetalWorks Clip-On



**M18**  
**Rd 3210** | **Type:** Round-Diagonal  
**Hole Size:** 12.7mm [.500"]  
**% Open Area:** 10.0%

**Standard on:** MetalWorks Torsion Spring, MetalWorks Snap-in, MetalWorks Clip-On



**M19**  
**Rg 3220** | **Type:** Round-Straight  
**Hole Size:** 6.35mm [.250"]  
**% Open Area:** 20.0%

**Standard on:** MetalWorks Torsion Spring, MetalWorks Snap-in, MetalWorks Clip-On

# METALWORKS™

## Perforations

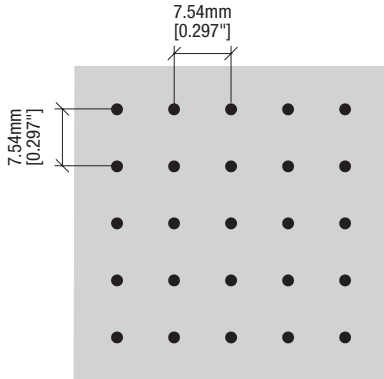
Key for Perforation Names (Example: Rg 0701)

<b>Rg</b>	Hole shape (round/straight)
<b>07</b>	Diameter of hole size in mm (Example – 0.7 mm)
<b>01</b>	% open area

Key for Perforation Types

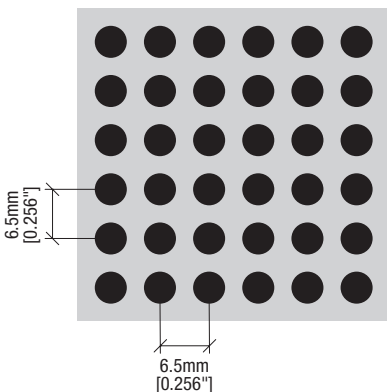
Bg = oblong/straight	Qg = square/straight
Bv = oblong/staggered	Rd = round/diagonal
Lg = rectangle/straight	Rg = round/straight
Lv = rectangle/staggered	Rv = round/staggered
Qd = square/diagonal	

### STANDARD PERFORATIONS Actual 1:1 scale shown

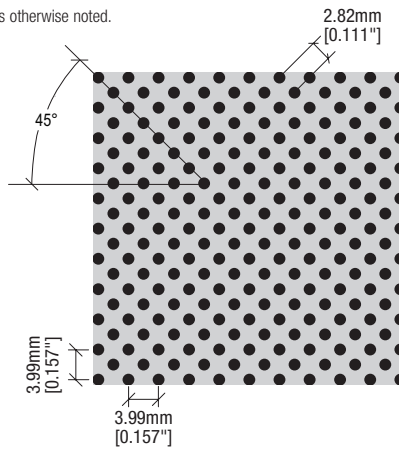


**M16S** | Type: Round-Straight  
**Rg 1604** | Hole Size: 1.6mm [0.062"]  
 % Open Area: 2.0%

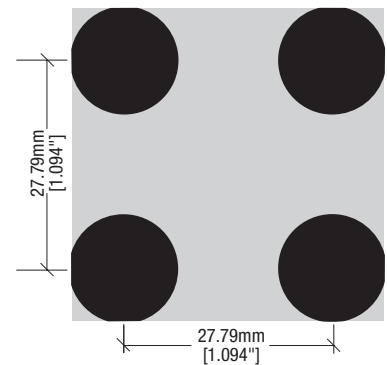
### PREMIUM PERFORATIONS Actual 1:1 scale shown unless otherwise noted.



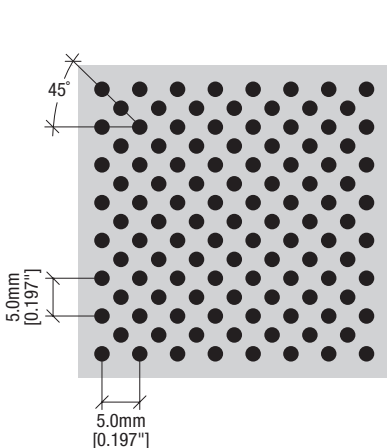
**M11** | Type: Round-Straight  
**Rg 4029** | Hole Size: 4.1mm [0.157"]  
 % Open Area: 29.5%



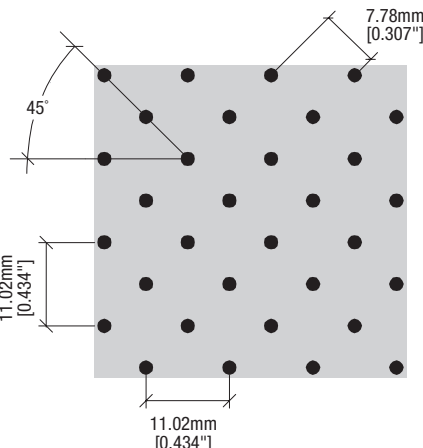
**M28** | Type: Round-Diagonal  
**Rd 1625** | Hole Size: 1.6mm [0.063"]  
 % Open Area: 25%



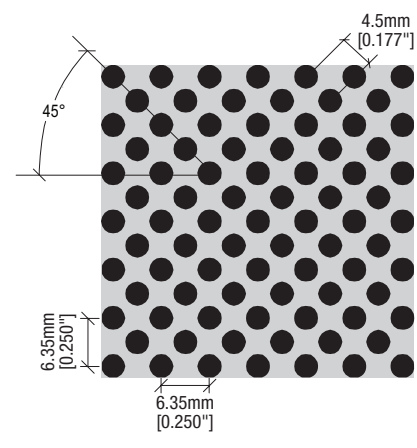
**M26** | Type: Round-Straight  
**Rd 1421** | Hole Size: 14.2mm [0.560"]  
 % Open Area: 21.0%



**M12** | Type: Round-Diagonal  
**Rd 1820** | Hole Size: 1.8mm [0.071"]  
 % Open Area: 20.0%



**M21** | Type: Round-Diagonal  
**Rd 1905** | Hole Size: 1.91mm [0.075"]  
 % Open Area: 5.0%

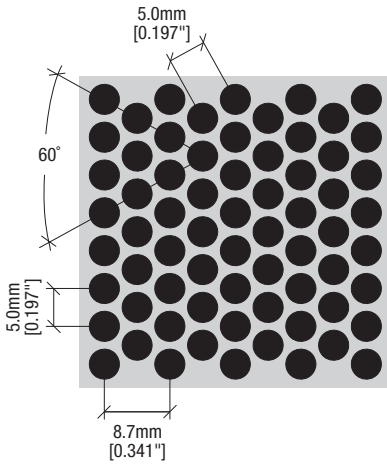


**M24** | Type: Round-Diagonal  
**Rd 3239** | Hole Size: 3.18mm [0.125"]  
 % Open Area: 39.0%

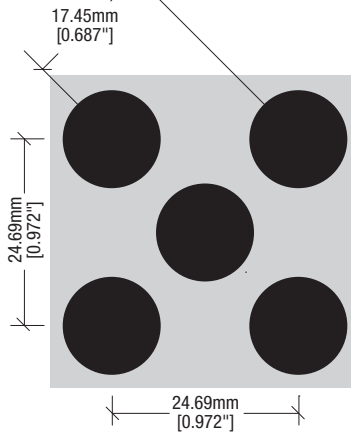
# METALWORKS™

## Perforations

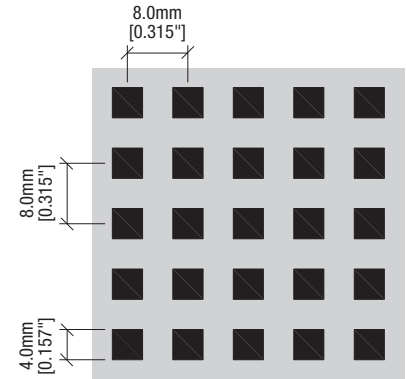
**PREMIUM PERFORATIONS** Actual 1:1 scale shown unless otherwise noted.



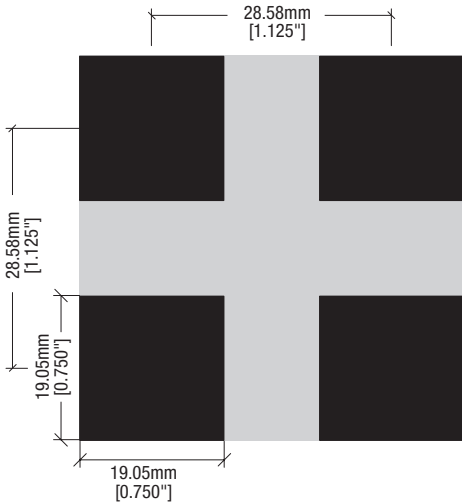
**M4** | **Rv 4058** | **Type:** Round-Staggered  
**Hole Size:** 4.0mm [.157"]  
**% Open Area:** 58.0%



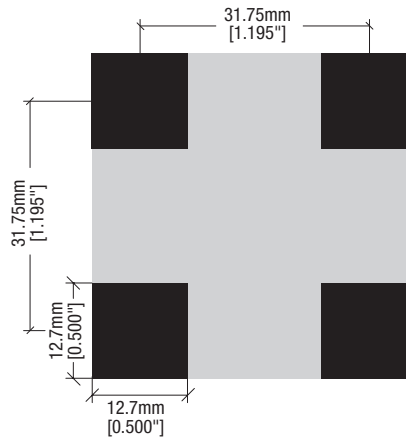
**M29** | **Rd 1242** | **Type:** Round-Diagonal  
**Hole Size:** 12.7mm [.500"]  
**% Open Area:** 42.0%



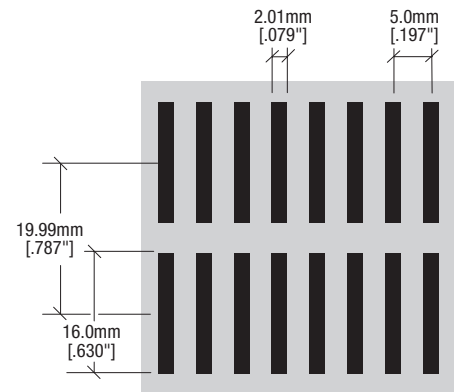
**M6** | **Qg 4025** | **Type:** Square-Straight  
**Hole Size:** 4.0mm x 4.0mm [.157" x .157"]  
**% Open Area:** 25.0%



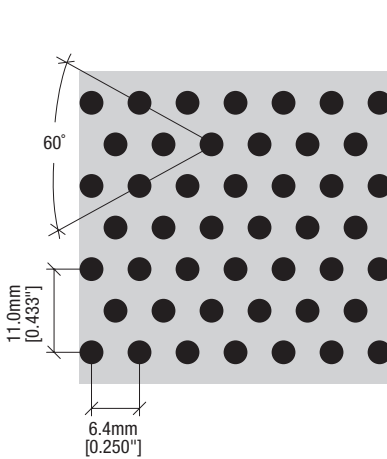
**M25** | **Qg 1945** | **Type:** Square-Straight  
**Hole Size:** 19.04mm x 19.04mm [.750" x .750"]  
**% Open Area:** 44%



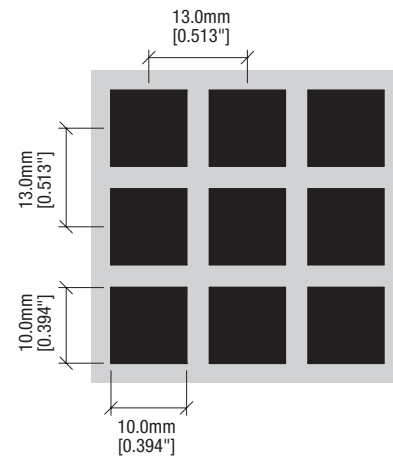
**M27** | **Qg 1218** | **Type:** Square-Straight  
**Hole Size:** 12.7mm x 12.7mm [.500" x .500"]  
**% Open Area:** 18.0%



**M5** | **Lg 16032** | **Type:** Rectangle-Straight  
**Hole Size:** 2.01mm x 16.0mm [.079" x .630"]  
**% Open Area:** 32.0%



**M9S** | **Rv 3020** | **Type:** Round-Staggered  
**Hole Size:** 3.0mm [.118"]  
**% Open Area:** 20.2%



**M13S** | **Qg 10059** | **Type:** Square-Straight  
**Hole Size:** 10mm x 10mm [.394" x .394"]  
**% Open Area:** 59.0%

# METALWORKS™

## Perforations

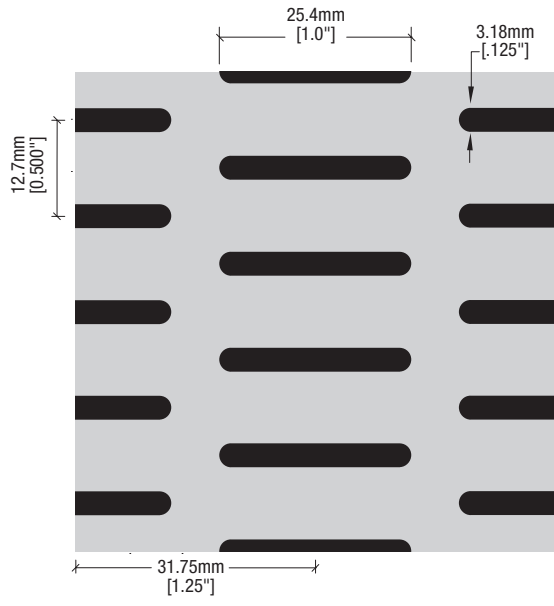
Key for Perforation Names (Example: Rg 0701)

<b>Rg</b>	Hole shape (round/straight)
<b>07</b>	Diameter of hole size in mm (Example – 0.7 mm)
<b>01</b>	% open area

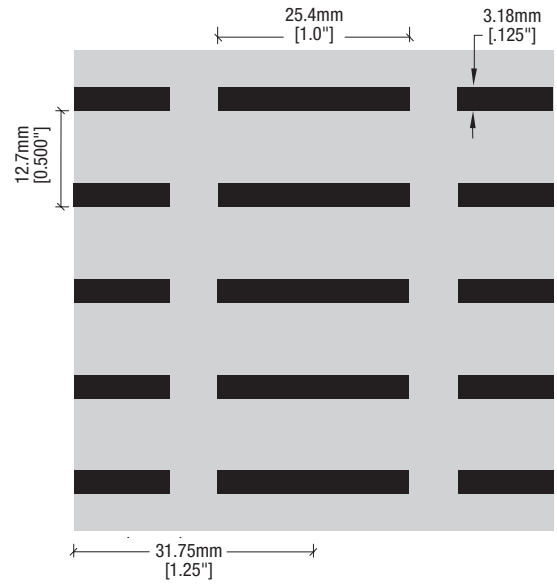
Key for Perforation Types

Bg = oblong/straight	Qg = square/straight
Bv = oblong/staggered	Rd = round/diagonal
Lg = rectangle/straight	Rg = round/straight
Lv = rectangle/staggered	Rv = round/staggered
Qd = square/diagonal	

**PREMIUM PERFORATIONS** Actual 1:1 scale shown unless otherwise noted.

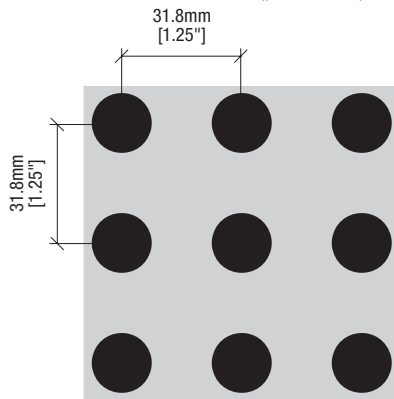


**M22 Bv25422** Type: Oblong-Staggered  
Hole Size: 3.18mm x 25.4mm [.125" x 1.00"]  
% Open Area: 22.0%

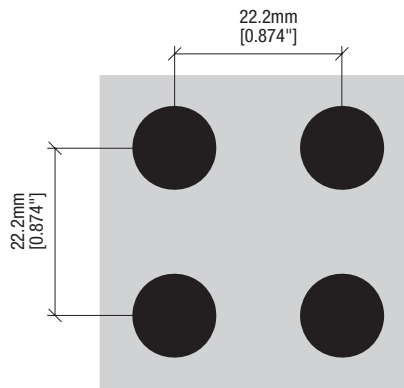


**M23 Lg25420** Type: Rectangle-Straight  
Hole Size: 3.175mm x 25.4mm [.125" x 1.00"]  
% Open Area: 20.0%

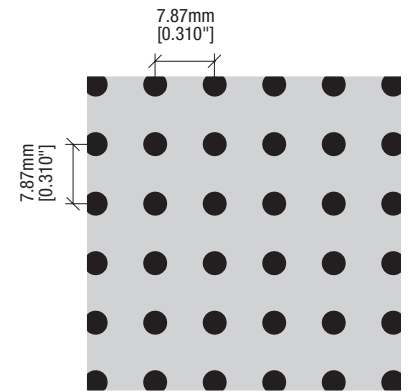
**CUSTOM PERFORATIONS (partial list)** Actual 1:1 scale shown unless otherwise noted.



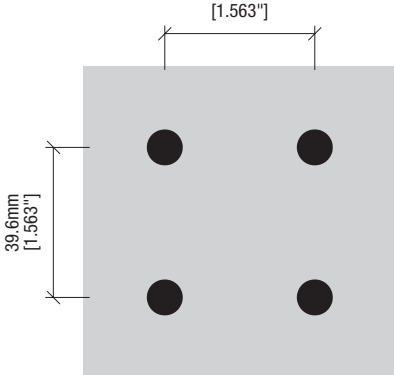
**Rg1520** Type: Round-Straight  
Hole Size: 15.9mm [.625"]  
% Open Area: 20.0%



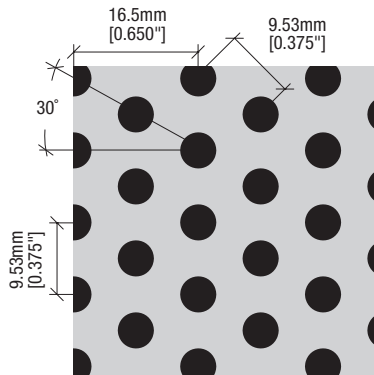
**Rg1120** Type: Round-Straight  
Hole Size: 11.1mm [.438"]  
% Open Area: 20.0%



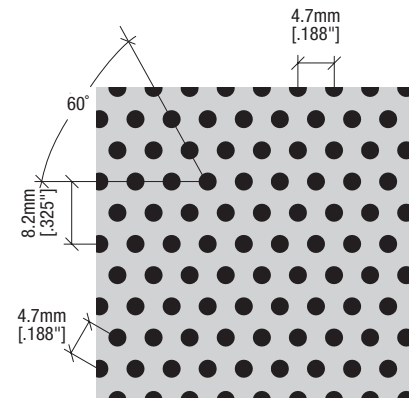
**Rg3213** Type: Round-Straight  
Hole Size: 3.18mm [.125"]  
% Open Area: 13.0%



**Rg9605** Type: Round-Straight  
Hole Size: 9.5mm [.375"]  
% Open Area: 5.0%



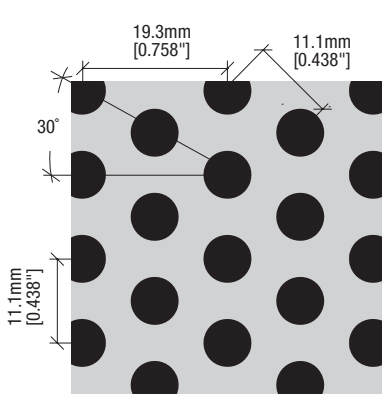
**Rv4823** Type: Round-Staggered  
Hole Size: 4.78mm [.188"]  
% Open Area: 23.0%



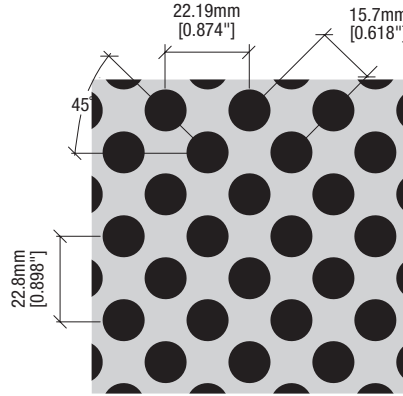
**Rv2423** Type: Round-Staggered  
Hole Size: 2.3mm [.094"]  
% Open Area: 23.0%

### CUSTOM PERFORATIONS (partial list) Actual 1:1 scale shown unless otherwise noted.

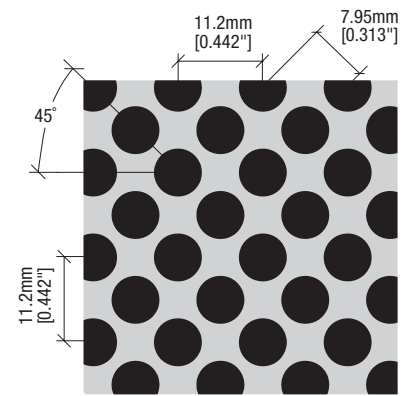
For technical assistance with custom design options and perforations, contact the You Inspire™ Solutions Center at: [solutionscenter@armstrongceilings.com](mailto:solutionscenter@armstrongceilings.com)



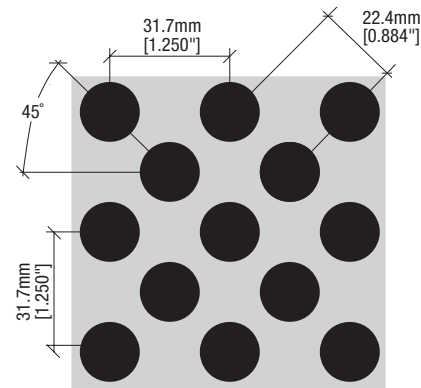
**Rv6330** Type: Round-Staggered  
Hole Size: 6.35mm [.250"]  
% Open Area: 30.0%



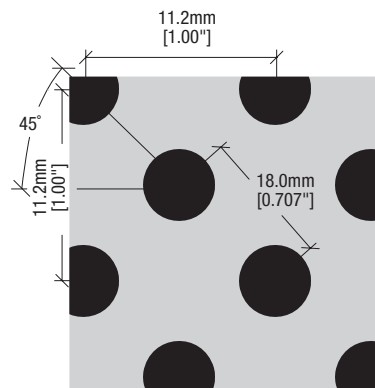
**Rd1139** Type: Round-Diagonal  
Hole Size: 11.1mm [.438"]  
% Open Area: 39.0%



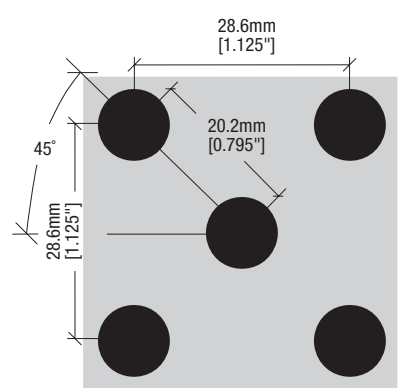
**Rd 6350** Type: Round-Diagonal  
Hole Size: 6.35mm [.250"]  
% Open Area: 50.0%



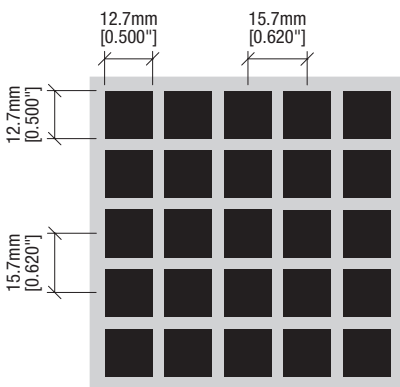
**Rd1539** Type: Round-Diagonal  
Hole Size: 15.8mm [.625"]  
% Open Area: 39.0%



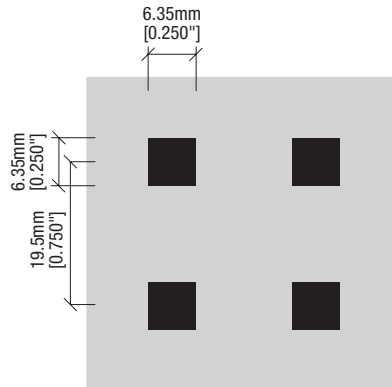
**Rd9622** Type: Round-Diagonal  
Hole Size: 9.50mm [.375"]  
% Open Area: 22.0%



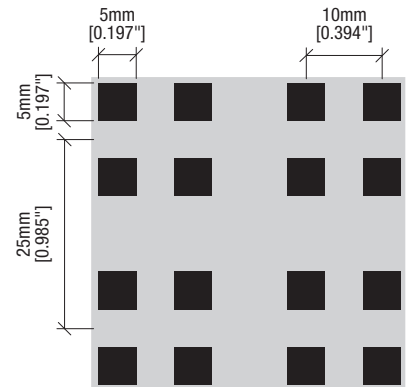
**Rd9617** Type: Round-Diagonal  
Hole Size: 9.50mm [.375"]  
% Open Area: 17.0%



**Qg1265** Type: Square-Straight  
Hole Size: 12.7mm x 12.7mm [.500" x .500"]  
% Open Area: 65.0%



**Qg6311** Type: Square-Straight  
Hole Size: 6.35mm x 6.35mm [.250" x .250"]  
% Open Area: 11.0%



**Qg5016** Type: Square-Straight  
Hole Size: 5mm x 5mm [.197" x .197"]  
% Open Area: 16.0%



# METALWORKS™

## Perforations

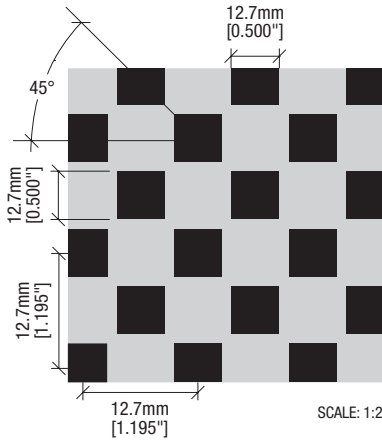
### Key for Perforation Names (Example: Rg 0701)

<b>Rg</b>	Hole shape (round/straight)
<b>07</b>	Diameter of hole size in mm (Example – 0.7 mm)
<b>01</b>	% open area

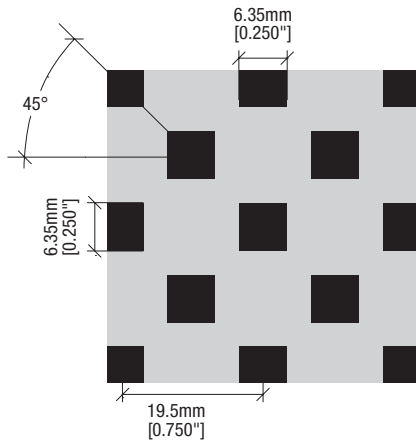
### Key for Perforation Types

Bg = oblong/straight	Qg = square/straight
Bv = oblong/staggered	Rd = round/diagonal
Lg = rectangle/straight	Rg = round/straight
Lv = rectangle/staggered	Rv = round/staggered
Qd = square/diagonal	

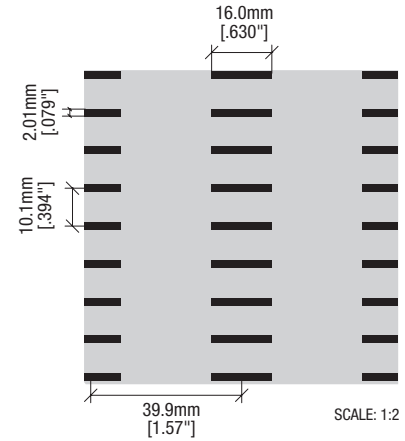
### CUSTOM PERFORATIONS (partial list) Actual 1:1 scale shown unless otherwise noted.



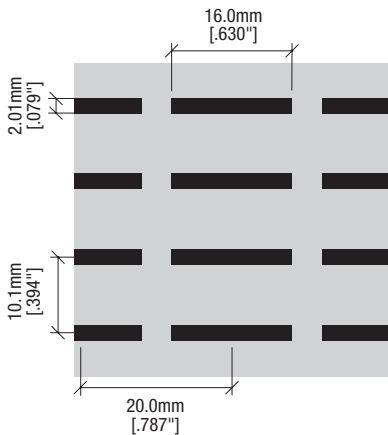
**Qd1235** Type: Square-Diagonal  
Hole Size: 12.7mm x 12.7mm [0.500" x .500"]  
% Open Area: 35.0%



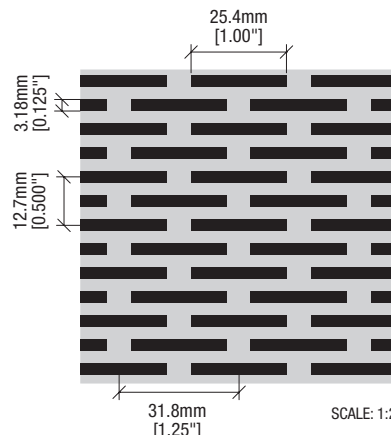
**Qd6322** Type: Square-Diagonal  
Hole Size: 6.35mm x 6.35mm [0.250" x .250"]  
% Open Area: 22.0%



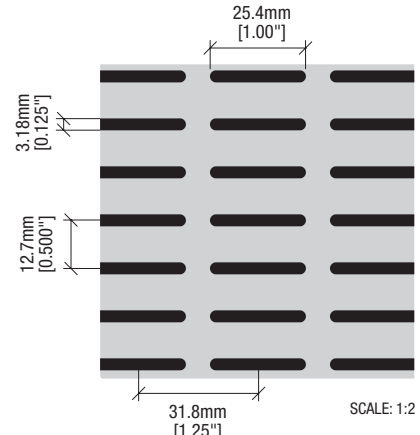
**Lg16008** Type: Rectangle-Straight  
Hole Size: 2.01mm x 16.0mm [0.079" x .630"]  
% Open Area: 8.0%



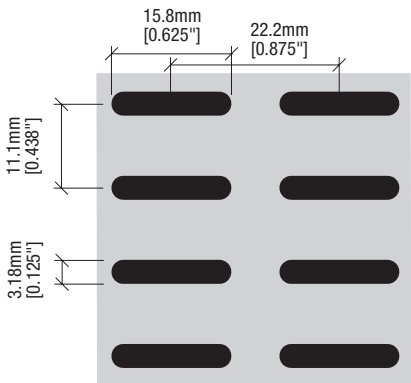
**Lg16016** Type: Rectangle-Straight  
Hole Size: 2.01mm x 16.0mm [0.079" x .630"]  
% Open Area: 16.0%



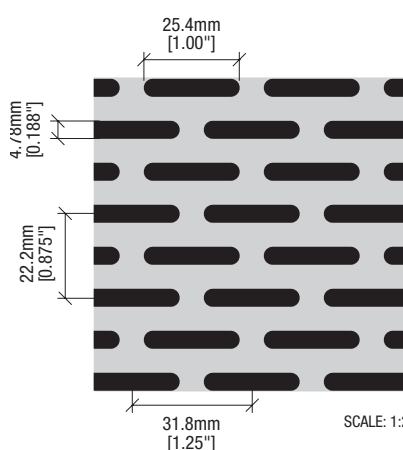
**Lv25439** Type: Rectangle-Staggered  
Hole Size: 3.18mm x 25.4mm [0.125" x 1.00"]  
% Open Area: 39.0%



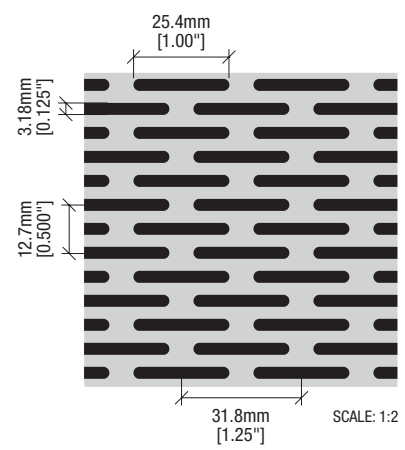
**Bg25419 OB.0062** Type: Oblong-Straight  
Hole Size: 3.18mm x 25.4mm [0.125" x 1.00"]  
% Open Area: 19.0%



**Bg15820** Type: Oblong-Straight  
Hole Size: 3.18mm x 15.8mm [0.125" x .625"]  
% Open Area: 20.0%



**Bv25433** Type: Oblong-Staggered  
Hole Size: 4.78mm x 25.4mm [0.188" x 1.00"]  
% Open Area: 33.0%



**Bv25439** Type: Oblong-Staggered  
Hole Size: 3.18mm x 25.4mm [0.125" x 1.00"]  
% Open Area: 39.0%

# METALWORKS™

Tegular  
smooth texture



TrioGuard®  
Dirt-Resistant  
Coating



plus capabilities  
to do more

armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

MetalWorks™ Tegular unperforated panels in White with Prelude® XL 15/16" suspension system (Pgs. 458-459)

Now, get Total Acoustics™ performance with MetalWorks Tegular perforated panels – excellent noise reduction and sound blocking in one system.

## KEY SELECTION ATTRIBUTES

- Get total noise control and design flexibility with Total Acoustics™ ceiling panels: NRC + CAC = Total Acoustics™ performance
- Available with TrioGuard® coating that resists dirt, bacteria, mold, mildew, and color fading
- Panels can be used to create continuous looks or clouds using Axiom® or Effects™ Wood Looks trim
- MetalWorks Tegular panels available for TechZone® ceiling systems applications
- Standard perforations available to enhance acoustical performance and design aesthetics
- Outstanding NRC with acoustical fleece or infill panel (0.65 – 0.90)
- BioAcoustic™ infill panels can enhance acoustics and contribute to LEED® credits
- 18" x 18" MetalWorks Tegular panels available for Metaphors® Coffers

## COLORS

Due to printing limitations, shade may vary from actual product.

White (WH)    White with TrioGuard® Coating (WH3G)    Silver Grey (SG)    Gun Metal Grey (MY)    Effects Maple (FXMP)

Effects Cherry (FXCH)    Effects Dark Cherry (FXDC)    Effects Walnut (FXWN)    Effects Oak (FXOK)    Effects Walnut Espresso (FXWE)

Custom Colors Available

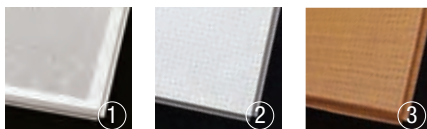
## PERFORATION OPTIONS

(1:2 scale shown)

M1 (Unperforated)    M2 (Microperforated)    M3 Extra Microperforated

Custom Perforations Available

## DETAILS



1. MetalWorks Tegular Microperforated
2. MetalWorks Tegular Extra Microperforated
3. Effects Wood Looks Tegular Extra Microperforated

# METALWORKS™

Tegular  
smooth texture

UP TO **25%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste to right
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

## VISUAL SELECTION

Edge Profile	Item Number*	Dimensions Nominal W x L (Inches) Custom Sizes Available	Perforations
--------------	--------------	---	--------------

### METALWORKS™ Flush Tegular (with acoustical fleece)

15/16" Flush Tegular	<b>6461</b> _ _ _ _	24 x 24"	☐ M1, M2
----------------------	---------------------	----------	----------



### METALWORKS 5/16" Square Tegular (with acoustical fleece)

15/16" Square Tegular	<b>6462</b> _ _ _ _	24 x 24"	☐ M1, M2, M3
-----------------------	---------------------	----------	--------------



### 9/16" Square Tegular

9/16" Square Tegular	<b>6464</b> _ _ _ _	24 x 24"	☐
----------------------	---------------------	----------	---



### METALWORKS 5/8" Square Tegular (with acoustical fleece)

15/16" Square Tegular	<b>6463</b> _ _ _ _ †	24 x 24"	☐ M1, M2
-----------------------	-----------------------	----------	----------



### 9/16" Square Tegular

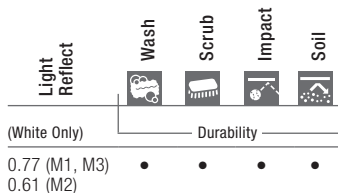
9/16" Square Tegular	<b>6465</b> _ _ _ _ †	24 x 24"	☐
----------------------	-----------------------	----------	---



- When specifying or ordering, include the appropriate perforation, letter color, and, if needed, coating suffix with the item number (e.g., 6464 M1 WH 3 G).
- Available in Effects™ Wood Looks and TrioGuard Finishes. NOTE: Perforation M2 not available in Effects finishes as a standard option. TrioGuard Finish available with M1 Unperforated only.
- † "S" Service item with extended lead time.

## PERFORMANCE

Dots represent high level of performance.



## ACOUSTICAL INFORMATION

Performance determined by perforation size

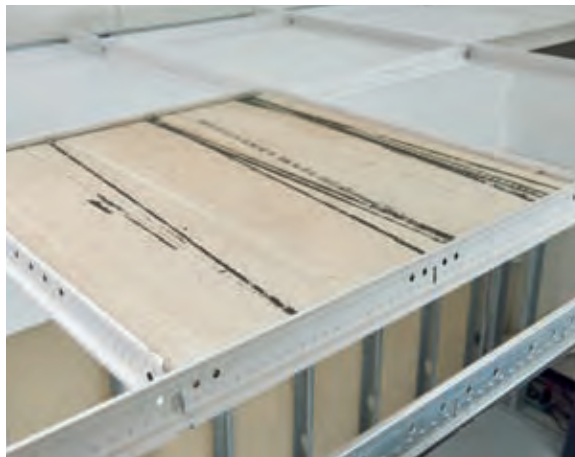
Perforation	Infill Panel Item Number	NRC	+ CAC	=	Total Acoustics <sup>1</sup>
<b>M1</b>	Unperforated	N/A	36	•	-
NOTE: Available with TrioGuard™ Coating					
<b>M2</b>	No infill	0.70	N/A	-	-
	8200T10	0.90	N/A	-	-
	5479	0.85	N/A	-	-
	5823	0.85	N/A	-	-
	1713	0.70	37	•	<b>BETTER</b>
2820	0.80	35	•	<b>BEST</b>	
<b>M3</b>	No infill	0.65	N/A	-	-
	8200T10	0.70	N/A	-	-
	5479	0.70	N/A	-	-
	5823	0.70	N/A	-	-
	2820	0.60	40	•	<b>GOOD</b>

<sup>1</sup> Total Acoustics™ ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+)  
**BETTER** (NRC 0.70-0.75; CAC 35+)  
**BEST** (NRC 0.80+; CAC 35+)

EXAMPLE: **6464 M1 WH 3G**

Panel Dimension/Type: 15/16" Square Tegular  
 Perforation: M1 Unperforated  
 Finish: White  
 TrioGuard™ Coating

## TOTAL ACOUSTICS™ PANEL INSTALLATION

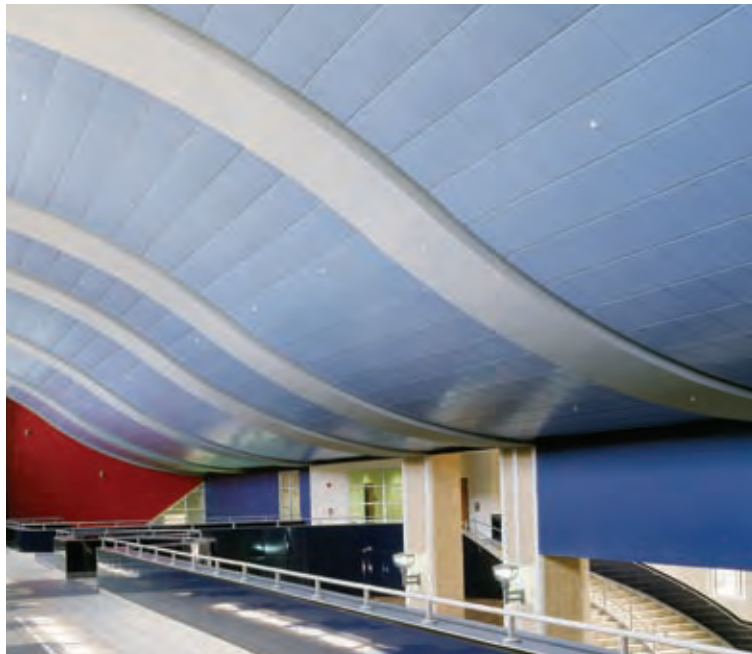


MetalWorks™ Tegular ceiling panel with Calla® 2820 acoustic infill panel for Total Acoustics™ performance

# METALWORKS™

Tegular  
smooth texture

## FACETED INSTALLATION

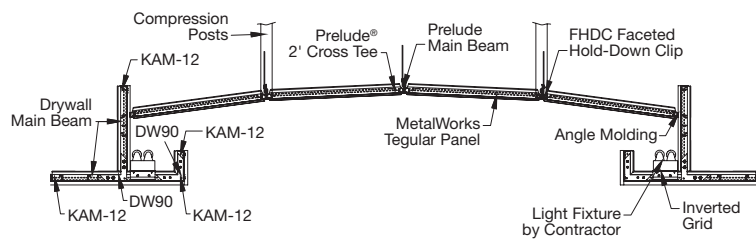


MetalWorks™ Tegular faceted panels

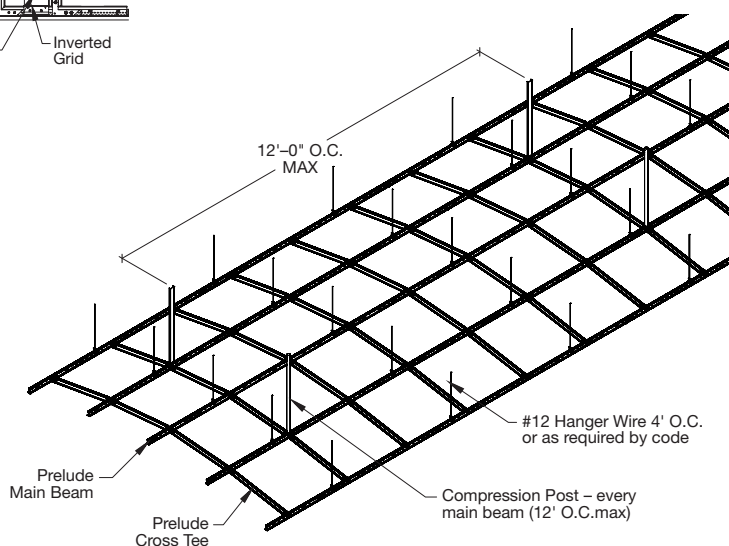


MetalWorks™ Tegular faceted panels

## FACETED PERIMETER DETAILS



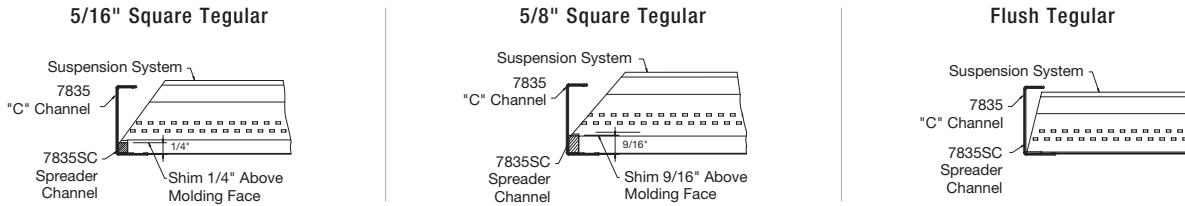
Perimeter conditions will require custom treatments. Moldings will need to be bent to match the angle of the ceiling where it contacts the walls at the straight sides, and will need to be cut to align with the panel segments on the faceted sides. It is recommended to have these installations tie into a wall or drywall bullhead rather than to attempt to create a floating ceiling condition.



# METALWORKS™

Tegular  
smooth texture

## PERIMETER INSTALLATION DETAILS (Spreader channel inserts into "C" channel.)

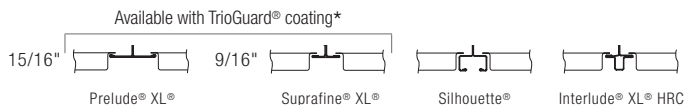


## ACCESSORIES

Item Number*	Description	Dimensions (Inches)	Pieces/Carton
5342 _ _ _ _	2" Effects™ Wood Looks Trim	120 x 3/4 x 2"	6
5344 _ _ _ _	4" Effects Wood Looks Trim	120 x 4 x 4"	6
5346 _ _ _ _	6" Effects Wood Looks Trim	120 x 6 x 6"	6
6096 _ _ *	Edge Cap for Cut Tegular Panels for 15/16" suspension systems (not available in Effects™ colors, order in Black (BL))	Nominal 24" length	50
6099 _ _ *	Edge Cap for Cut Tegular Panels for 9/16" suspension systems (not available in Effects colors, order in Black (BL))	Nominal 24" length	50
84008 _ _ *	Single Single Slot Air Diffuser (not available in Effects colors, order in Black (BL))	24 x 24"	1
FXSPTHDC	Effects™ Hold Down Clip for Cut Panel Installations	N/A	10
FHDC	Faceted Hold Down Clip	N/A	10
1713	School Zone® Fine Fissured™ Square Lay-in Acoustic Panel	24 x 24 x 3/4"	14
2820	Calla® Square Lay-in Acoustic Panel	24 x 24 x 1"	10
5479	BioAcoustic™ Infill Panel (Beige – Matte)	24 x 24 x 5/8"	12
5823	BioAcoustic™ Infill Panel (Black – Matte)	24 x 24 x 5/8"	12
8200T10	1" Fiberglass Infill Bag (Black – Gloss)	24 x 24"	12

\* When specifying or ordering, include the appropriate 2-letter color suffix with the item number (e.g., 6098 B L).

## SUSPENSION SYSTEMS



\* For more information about TrioGuard® coating for suspension system, refer to Prelude® XL®, Pgs. 458-459, Suprafine® XL®, Pgs. 466-467, and angle molding Pg. 469-471. Prelude and Suprafine suspension systems are available in coordinating colors. All other suspension systems are available in standard White only. Other colors available as special order.

## PHYSICAL DATA

**Material**  
Electrogalvanized Steel – 0.021" thickness

**Surface Finish**  
Factory-applied powder-coated finish (post-coated for color and/or TrioGuard® coating).  
Factory-applied powder-coated finish (post-coated on both sides). Effects finish on face only.  
Product tested to be fade-resistant up to 10 years.  
Custom colors also available. Contact TechLine for custom color matching requests at 1 877 276-7876.

**Fire Performance**  
ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

**Acoustical Performance**  
CAC testing conducted using Prelude® XL® for 15/16" edge detail and Silhouette® for 9/16" edge detail.

**ASTM E1264 Classification**  
Fire Class – Class A  
Unperforated – Type XX, Pattern G  
Perforated – Type XX, Pattern C

**Installation Consideration**  
For Tegular faceted installations, a Faceted Hold Down Clip must be used, which will limit accessibility. If accessibility is required in a faceted application, use Vector® panels.  
For information about faceted applications with square Tegular panels in 15/16" suspension system, refer to installation instructions on our web site at [armstrongceilings.com/installation](http://armstrongceilings.com/installation).

**Seismic Restraint**  
MetalWorks Tegular panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

**Warranty**  
Details at [armstrongceilings.com/warranty](http://armstrongceilings.com/warranty)

**Weight; Square Feet/Carton**  
6461M2 – 0.75 lbs/SF; 64 SF/Ctn  
6461M1 – 0.80 lbs/SF; 64 SF/Ctn  
6462M2 – 0.86 lbs/SF; 64 SF/Ctn  
6462M1, 6463M2, 6465M2, 6462M3 – 0.89 lbs/SF; 64 SF/Ctn  
6464M2, 6463M1, 6465M1, 6464M3 – 0.92 lbs/SF; 64 SF/Ctn  
6464M1 – 0.97 lbs/SF; 64 SF/Ctn

TechLine / 1 877 276 7876  
[armstrongceilings.com/metalworks](http://armstrongceilings.com/metalworks)  
(search: metalworks tegular)  
BPCS-5109-718

LEED® is a registered trademark of the U.S. Green Building Council  
All other trademarks used herein are the property of AWI Licensing LLC  
and/or its affiliates © 2018 AWI Licensing LLC  
Printed in the United States of America

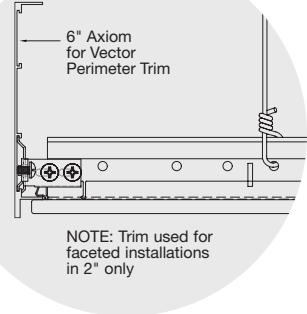
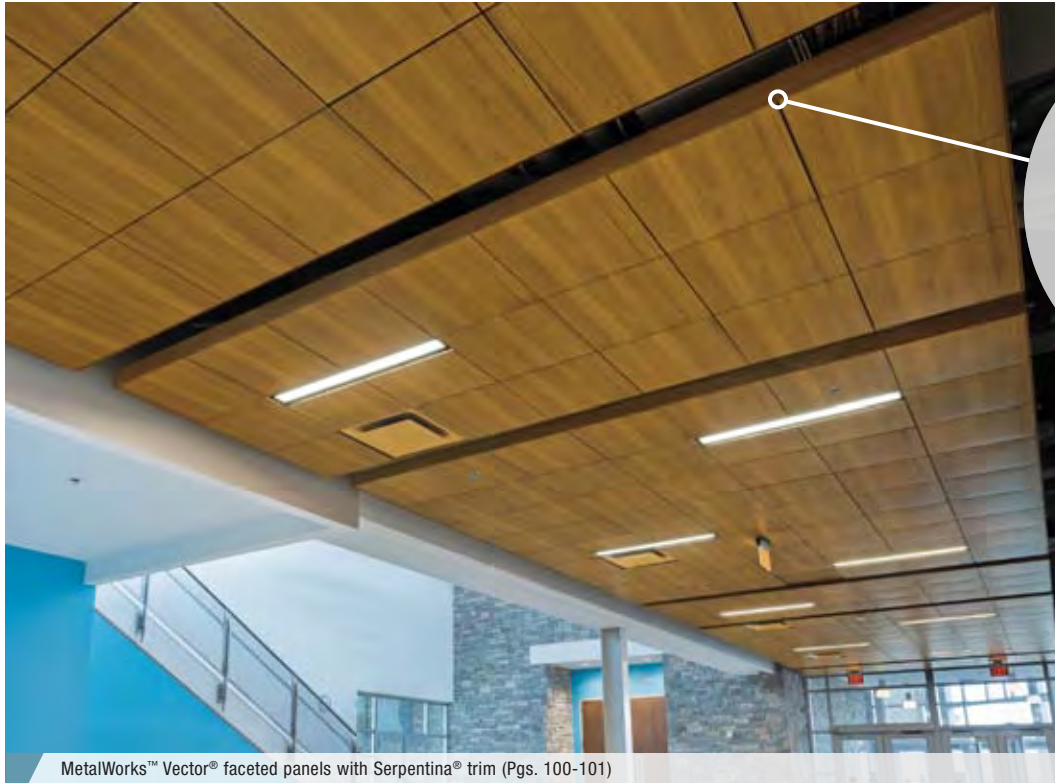
**Armstrong®**  
CEILING & WALL SOLUTIONS



# METALWORKS™

Vector® and Vector Exterior  
smooth texture

CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



plus capabilities  
to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

MetalWorks™ Vector® faceted panels with Serpentina® trim (Pgs. 100-101)

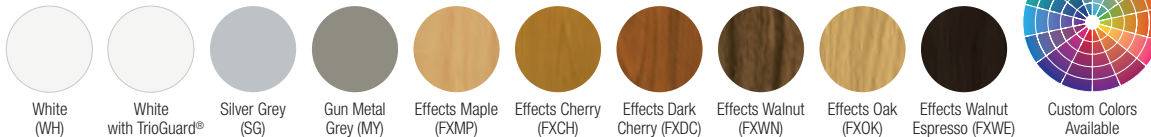
Durable, steel panels offer a 1/4" reveal and 100% downward accessibility.

## KEY SELECTION ATTRIBUTES

- Available with TrioGuard® coating that resists dirt, bacteria, mold, mildew, and color fading
- Exclusive Vector® panel edge profile installs on new or existing 15/16" exposed tee suspension system resulting in a thin 1/4" reveal
- Panels can be used to create continuous looks or clouds using Axiom® trim or Effects™ Wood Looks trim
- Standard perforations available to enhance acoustical performance and design aesthetics
- Exterior system available, tested to meet wind uplift Classes 30, 60, and 90
- Outstanding NRC with acoustical fleece or infill panel (0.65 – 0.90)
- Installs with minimal plenum clearance
- Plenum access per panel without the need of special tools

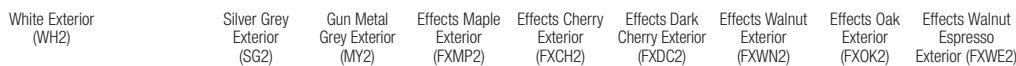
## COLORS

Due to printing limitations, shade may vary from actual product.

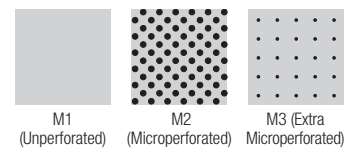


NOTE: Effects colors are only available for unperforated and extra microperforated panels.

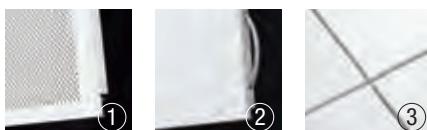
## Exterior



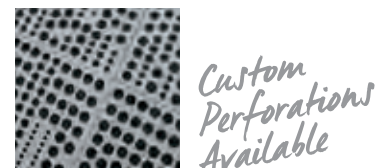
## PERFORATION OPTIONS (1:2 scale shown)



## DETAILS



1. MetalWorks™ Vector® Microperforated
2. MetalWorks™ Vector® Extra Microperforated
3. MetalWorks™ Vector® Unperforated with Prelude® XL® 15/16" suspension system



# METALWORKS™

Vector® and Vector Exterior  
smooth texture

UP TO 25% RECYCLED CONTENT  
For LEED contribution contact TechLine

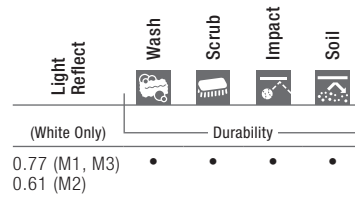
LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	bio-based materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	---------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

## VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions (Inches)	Perforations
<b>METALWORKS™ Vector®</b>			
1/4" Reveal with 15/16" Vector®	6466	24" x 24"	M1, M2, M3

◆ When specifying or ordering, include the appropriate color, perforation and, if needed, coating suffix with the item number (e.g., 6466 M1 W H, 6466 M3 F X C H, or 6466 M1 W H 3 G).  
NOTE: Perforation M1 available with TrioGuard® coating  
Perforation M2 available in Effects finishes as a custom option and a 1,000 SF minimum order quantity.

## PERFORMANCE



## ACOUSTICAL INFORMATION

Perforation	% Open Area	NRC	CAC
<b>M1</b> Unperforated	0%	—	36
<b>M2</b> Micro-perforated	18.4%	0.70† 0.90*	31**
<b>M3</b> Extra Micro-perforated	1.5%	0.65† 0.70*	33**

NOTE: Available with TrioGuard™ Coating  
† No infill  
\* NRC 0.90 (microperforated) with optional fiberglass infill #8200T10. NRC 0.70 (extra microperforated) with optional BioAcoustic™ infill #5479 or 5823.  
\*\* With optional field-cut #770 mineral fiber backing (cannot be used in addition to fiberglass infill #8200T10).

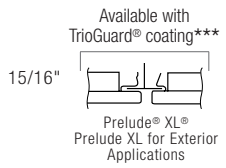
## ACCESSORIES

For additional accessories, including moldings and perimeter trim, see pgs. 209-210.

Item No. ◆	Description	Dimensions (Inches)	Pieces/Carton
5342	2" Effects™ Wood Looks Trim	120 x 3/4 x 2"	6
5344	4" Effects Wood Looks Trim	120 x 4 x 4"	6
5346	6" Effects Wood Looks Trim	120 x 6 x 6"	6
5479	BioAcoustic™ Infill Panel (Beige – Matte)	24 x 24 x 5/8"	12
5823	BioAcoustic™ Infill Panel (Black – Matte)	24 x 24 x 5/8"	12
6098_ _**	Edge Cap for Cut Vector Panels not available in Effects colors, order in Black (BL)	Nominal 24" length	50
8200T10	1" Fiberglass Infill Bag (Black – Gloss)	24" x 24"	12
84008_ _**	Single Slot Air Diffuser not available in Effects colors, order in Black (BL)	24" x 24"	1
FXSPTHDC	Effects™ Hold-Down Clip for Cut Panel Installations	N/A	10

\*\* Available in Effects™ Wood Looks finishes.

## SUSPENSION SYSTEMS



\*\*\* For more information about TrioGuard® coating for Prelude® XL® suspension system, see Pgs. 458-459.

## PHYSICAL DATA

**Material**  
Electrogalvanized Steel – 0.021" thickness

**Surface Finish**  
Factory-applied powder-coated finish (post-coated for color and/or TrioGuard® coating).  
Exterior: Factory-applied powder-coated finish (post-coated on both sides). Effects finish on face only.  
Product tested to be fade-resistant up to 10 years.  
Custom colors also available. Contact TechLine for custom color matching requests at 1 877 276-7876.

**Fire Performance**  
Tested per ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

**ASTM E1264 Classification**  
Fire Class – Class A  
Unperforated – Type XX, Pattern G  
Perforated – Type XX, Pattern C

**Installation Consideration**  
For information about accessible faceted applications, refer to installation instructions on our web site at [armstrongceilings.com/installation](http://armstrongceilings.com/installation).

**Wind Uplift Performance**  
MetalWorks™ Vector® panels for exterior flat applications have been tested to meet wind uplift Classes 30, 60, and 90. There is no fleece on exterior panels. Visit [armstrongceilings.com/metalworks](http://armstrongceilings.com/metalworks) or contact TechLine at 1 877 276-7876 for installation instructions and test documentation.

**Seismic Restraint**  
MetalWorks™ Vector® panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
6466M1, 6466M3 – 1.15 lbs/SF; 40 SF/ctn  
6466M2 – 1.10 lbs/SF; 40 SF/ctn  
Contact TechLine for weight information on panels with M4, M5, and M6 perforations.

# METALWORKS™ Clip-on smooth texture

*Now with  
Create! Custom  
Perforations*

## CREATE!™

CUSTOM PERFORATIONS



MetalWorks™ Clip-on panels in Silverlume with Prelude® 15/16" suspension system (Pgs. 458-459)



Art and acoustics blend with MetalWorks™ Create!™ custom perforated panels. More at: [armstrongceilings.com/metalworkscreate](http://armstrongceilings.com/metalworkscreate)

plus capabilities  
to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

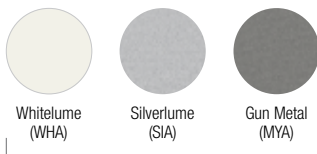
Easy-to-install, downward-accessible panels are perfect for renovations.

### KEY SELECTION ATTRIBUTES

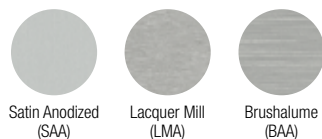
- new** Now, transform your images onto custom perforated MetalWorks™ Create!™ ceiling and wall panels for a unique aesthetic visual with acoustical performance
- Great for renovations – transform spaces with existing 15/16" suspension quickly and easily
- MetalWorks Clip-on panels are part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today. Unperforated (M1) panels only
- Choose from butt joint, 1/4", or 1/8" panel reveals
- 24" x 24" and 24" x 48" standard sizes; custom sizes available up to 24" x 48"
- Fixture frames provide a clean, finished look
- NRC values up to 0.90 with fiberglass infill panels

### COLORS Due to printing limitations, shade may vary from actual product.

#### MetalWorks

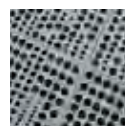
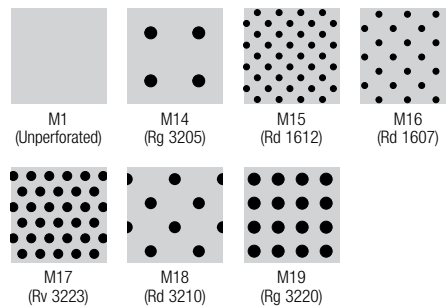


Part of the Sustain™ portfolio, meeting sustainability compliance standards. (M1 – unperforated panels only)



Custom Colors Available

### PERFORATION OPTIONS (1:2 scale shown)



*Custom Perforations Available*



*Create! Custom Perforations Available*



# METALWORKS™ Clip-on

smooth texture



**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems  
Unperforated (M1)

**Declare™**  
Living Building  
Challenge Compliant

UP TO 80% RECYCLED CONTENT

LEED®

- energy management
- construction waste to reuse
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- low embodied materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

For LEED contribution contact TechLine

## VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions (Inches) W x L x H Custom Sizes Available
<b>METALWORKS™ Clip-on</b>		
Butt Joint	<b>7110</b> _ _ _ _	24 x 24 x 1"
	<b>7111</b> _ _ _ _	24 x 48 x 1"
1/8" Reveal	<b>7140</b> _ _ _ _	24 x 24 x 1"
	<b>7141</b> _ _ _ _	24 x 48 x 1"
1/4" Reveal	<b>7154</b> _ _ _ _	24 x 24 x 1"
	<b>7155</b> _ _ _ _	24 x 48 x 1"

◆ When specifying or ordering, include appropriate perforation and color suffix (e.g., 71110 M 1 L M A) with item number.  
NOTE: Light reflectance is for unperforated Whitelume.

## STOCKED ITEMS

Item No.	Description	Dimensions (Inches) Nominal W x L x H	Color	Pieces/ Carton
<b>7110M1CTN10WHA</b>	–	Nominal 24"	Whitelume	10
<b>7110M1CTN10SIA</b>	–	Nominal 24"	Silverlume	10
<b>7110M15CTN10WHA</b>	–	Nominal 24"	Whitelume	10
<b>7110M15CTN10SIA</b>	–	Nominal 24"	Silverlume	10

## ACCESSORIES

Item No. ◆	Description	Dimensions (Inches) Nominal W x L x H	Color	Pieces/ Carton
<b>7112</b> _ _	Box Molding	1 x 96 x 1"	WHA, SIA, MYA, SAA, LMA, BAA	10
<b>7113</b> _ _	Spreader Hold Down	1 x 10-5/8 x 1"	N/A	40
<b>7119</b> _ _	Fixture Frame	24" x 24"	WHA, SIA, MYA, SAA, LMA, BAA	1
<b>7120</b> _ _	Fixture Frame	24" x 48"	WHA, SIA, MYA, SAA, LMA, BAA	1
<b>7223</b> _ _	Perimeter Trim	1 x 96 x 4-1/4"	WHA, SIA, MYA, SAA, LMA, BAA	10
<b>5823</b>	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black	12
<b>8200T10</b>	1" Fiberglass Infill Bag	24 x 24 x 1"	Black (Gloss)	12

NOTE: Adjustable Trim Clip used with standard Axiom or MetalWorks Trim systems.

## PHYSICAL DATA

**Material**  
Aluminum – thickness 0.040"

**Surface Finish**  
Painted finishes: Factory-applied polyester paint. Custom colors also available.

**Fire Performance**  
Painted aluminum finishes tested per ASTM E84. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

Painted Aluminum finishes CAN/ULC S102 surface burning characteristics: Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

**Acoustical Options**  
Perforated panels are supplied with a black fiberglass fleece to absorb sound.

**Recycled Content**  
Up to 80%.

**Installation Considerations**  
Ensure suspension is level and square, whether using existing or new suspension system.

**Design Considerations**  
Panel face sits 1" lower than the suspension system. Some light, sprinklers, and other components may need to be height adjusted when retrofitting.

Panels have a directional finish; follow direction arrows printed on the protective film.

Anodized and Lacquer Mill finishes may vary in shade between production runs as well as over time. Sizes can be mixed and matched on non-perforated panels only.

Butt joint panels are recommended if the suspension system is not coordinated with the panel color.

MetalWorks™ steel and aluminum panels are made at different manufacturing facilities that use different paint

systems. Because of this, similar colors, i.e., White and Whitelume, are not exact color matches. Please consider this when designing adjacent spaces with multiple MetalWorks products.

**Seismic Restraint**  
MetalWorks Clip-on panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

**Design Support**  
Project management assistance is available by calling TechLine at 1 877 276-7876.

**Warranty**  
One (1) Year Limited Warranty. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight**  
0.75 lbs/SF

## PERFORMANCE

Dots represent high level of performance.

Light Reflect
0.77
0.77
0.77
0.77
0.77
0.77
0.77

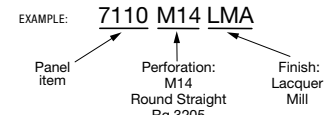
## ACOUSTICAL INFORMATION

LOCATION DEPENDENT

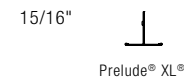
WITH INFILL PANEL

Perforation	NRC with acoustical fleece	NRC with 1" fiberglass infill **
<b>M1</b> Unperforated	–	–
<b>M14</b> Rg 3205	0.55	0.85
<b>M15</b> Rd 1612	0.70	0.90
<b>M16</b> Rd 1607	0.70	0.80
<b>M17</b> Rv 3223	0.75	0.90
<b>M18</b> Rd 3210	0.65	0.85
<b>M19</b> Rg 3220	0.75	0.90

\*\* Maximum NRC achieved with acoustical infill (item 8200T10).



## SUSPENSION SYSTEMS



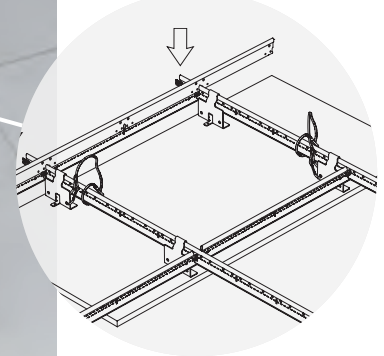
# METALWORKS™ Concealed

smooth texture

CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



MetalWorks™ Concealed 48" x 96" panels in Silver Grey



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: metalworks concealed

Large-size panels with concealed suspension are 100% accessible.

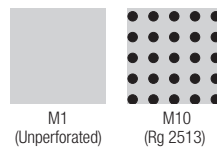
## KEY SELECTION ATTRIBUTES

- Narrow 1/4" reveal offers clean, monolithic look
- Hook-on panels provide safe and secure downward accessibility
- Create continuous look or use with clouds and perimeter trim
- Lightweight panels install with standard 15/16" suspension system
- Complete standard system from one manufacturer

**COLORS** Due to printing limitations, shade may vary from actual product.



**PERFORATION OPTIONS** (1:2 scale shown)



# METALWORKS™ Concealed

smooth texture

UP TO **85%** RECYCLED CONTENT

For LEED contribution contact TechLine

LEED® energy management construction waste mgmt regional materials design for flexibility EPD recyclable/extended producer resp. bio-based materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

## VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions (Inches) W x L x H	Perforations
<b>METALWORKS™ Concealed</b>			
1/4" Reveal	<b>6664</b> _ _ _ _ _	24 x 96 x 5/8"	M1; M10
	<b>6665</b> _ _ _ _ _	24 x 120 x 5/8"	M1; M10
	<b>6666</b> _ _ _ _ _	48 x 48 x 5/8"	M1; M10
	<b>6667</b> _ _ _ _ _	48 x 96 x 5/8"	M1; M10
	<b>6668</b> _ _ _ _ _	48 x 120 x 5/8"	M1; M10

◆ When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 6664 **M 1 M Y**).

## PERFORMANCE

Dots represent high level of performance.

Light Reflect	Wash	Scrub	Impact	Soil
(White Only)	Durability			
0.77 (M1)	•	•	•	•
0.77 (M1)	•	•	•	•
0.77 (M1)	•	•	•	•
0.77 (M1)	•	•	•	•

## ACOUSTICAL INFORMATION

Perforation	NRC
<b>M1</b>	N/A
<b>M10</b>	0.80 / 0.90†

Maximum NRC and CAC achieved with acoustical infill options. For additional Infill options, refer to Pg. 140.  
 † With BioAcoustic™ infill item 5479. NRC of 0.90 with fiberglass infill 8200T10, NRC 0.80 as sold.

**EXAMPLE: 6664 M10 SG**

Panel Dimension/Type: 24" x 96"  
 Perforation: M10  
 Finish: Silver Grey

## ACCESSORIES

Item No. ◆	Description	Dimensions (Inches)	Color	Pieces/Carton
<b>6656M1</b> _ _	MetalWorks™ Concealed Trim	6" x 120"	WH, SG, MY	6
<b>7842A</b> _ _	Slip-on Molding	1/2 x 120 x 5/8"	WH, SG, MY	40
<b>FXTBC</b>	T-bar Connector Clip	—	—	10
<b>FX4SPICE</b>	Splice Plate with Set Screws	—	—	10
<b>8200T10</b>	Fiberglass Infill Panel	24 x 24 x 1"	Black (Gloss)	12
<b>5823</b>	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black	12
<b>5479</b>	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Beige	12
<b>7239</b>	Adjustable Trim Clip	—	N/A	50

NOTE: Adjustable Trim Clip used with standard Axiom or MetalWorks Trim systems.

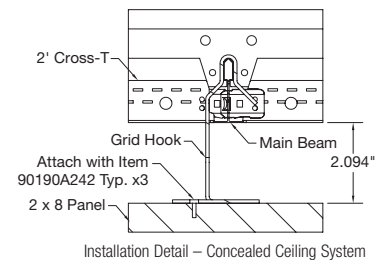
## SUSPENSION SYSTEM

15/16" Heavy-duty Prelude® XL® Suspension System (See Pgs. 365-366 for components.)

Item No.	Description	Dimensions	Quantity
<b>5986</b>	T-Bar Hook†	Nominal 4 x 2 x 3"	50
<b>90190A242</b>	#10 Pan Head Sheet Metal Screw	1/2"	100
<b>6091</b>	Safety Cable	24" x 3/32"	50
<b>SH12</b>	Support Hanger	144" x 2"	12

† For 24" x 96", 48" x 48", and 48" x 96" panels, install 4 hooks per panel; for 24" x 120" and 48" x 120" panels install 6 hooks per panel.

NOTE: Refer to installation instructions at [armstrongceilings.com/installation](http://armstrongceilings.com/installation) for a better understanding of suspension requirements.



## PHYSICAL DATA

**Material**  
Aluminum composite – 0.57" thick

**Surface Finish**  
Factory-applied powder-coated finish (post-coated)

**Acoustical Performance**  
MetalWorks Concealed perforated panels provide outstanding acoustical correction. NRC 0.95 achieved with acoustical infill item 5823. See CS-4172 for more information on infill panels.

**Fire Performance**  
ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed 50 or less.

**Installation Considerations**  
Please refer to installation instructions LA-297890 before installing MetalWorks Concealed panels.  
Not made for SingleSpan™ corridor applications.

**Seismic Restraint**  
MetalWorks Concealed panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong installation instructions.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
0.97 lbs/SF (Bulk packaged)

TechLine / 1 877 276 7876  
[armstrongceilings.com/metalworks](http://armstrongceilings.com/metalworks)  
 (search: metalworks concealed)  
 BPCS-5112-718

LEED® is a registered trademark of the U.S. Green Building Council  
 Revit® is a registered trademark of Autodesk, Inc. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
 © 2018 AWI Licensing LLC Printed in the United States of America

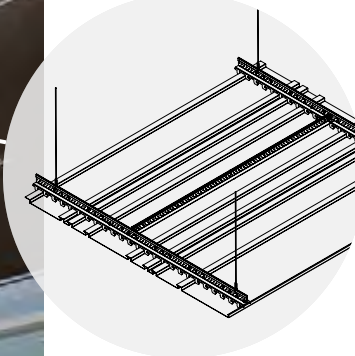
**Armstrong®**  
 CEILING & WALL SOLUTIONS

# METALWORKS™ Linear METALWORKS Linear Exterior

smooth texture



CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



plus capabilities  
to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

MetalWorks™ Linear Ceiling System in Effects™ Wood Looks Walnut Espresso

Durable, metal panels in more widths for a variety of flexible and unique acoustical interior/exterior solutions.

## KEY SELECTION ATTRIBUTES

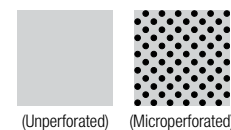
- New universal suspensions system will enable easy installation and a clean finished visual
- Nominal 2", 4", 6", 8", 10", and 12" wide panels, including nominal 1" reveal
- Discontinuous ceilings possible with Effects™ trim or Axiom® trim, using the new Adjustable Trim Clip
- Mix and match widths for a striated visual
- Install in the ceiling, on the wall
- Create 90° angled or curved ceiling-to-wall transitions
- Available for exterior applications, tested to meet wind uplift Classes 30, 60, and 90
- Acoustical options with microperforated panels
- Fast and easy installation

**COLORS** Due to printing limitations, shade may vary from actual product.



## PERFORATION OPTIONS

(1:2 scale shown)



## Exterior

- |                      |                            |                               |                                |                                 |                                      |                                 |                              |  |
|----------------------|----------------------------|-------------------------------|--------------------------------|---------------------------------|--------------------------------------|---------------------------------|------------------------------|--|
| White Exterior (WH2) | Silver Grey Exterior (SG2) | Gun Metal Grey Exterior (MY2) | Effects Maple Exterior (FXMP2) | Effects Cherry Exterior (FXCH2) | Effects Dark Cherry Exterior (FXDC2) | Effects Walnut Exterior (FXWN2) | Effects Oak Exterior (FXOK2) | Effects Walnut Espresso Exterior (FXWE2) |
|----------------------|----------------------------|-------------------------------|--------------------------------|---------------------------------|--------------------------------------|---------------------------------|------------------------------|--|

# METALWORKS™ Linear METALWORKS Linear Exterior

smooth texture

UP TO **25%** RECYCLED CONTENT  
For LEED contribution contact TechLine

LEED® energy management construction waste mgmt regional materials design for flexibility EPD recyclable/extended producer resp. bio-based materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

LOCATION DEPENDENT WITH INFILL PANEL

## VISUAL SELECTION

Item No. ♦	Description	Dimensions	
		Nominal W x L x H (Inches)	Custom Sizes Available
<b>METALWORKS™ Linear Planks</b>			
8120_-----	2" Unperforated	96 x 2 x 5/8"	
5490_-----	4" Unperforated	96 x 4 x 5/8"	
7160_-----	6" Unperforated	96 x 6 x 5/8"	
5491_-----	8" Unperforated	96 x 8 x 5/8"	
8122_-----	10" Unperforated	96 x 10 x 5/8"	
5570_-----	12" Unperforated	96 x 12 x 5/8"	
8121_-----	2" Microperforated (with plain border and acoustical fleece)	96 x 2 x 5/8"	
5492_-----	4" Microperforated (with plain border and acoustical fleece)	96 x 4 x 5/8"	
7161_-----	6" Microperforated (with plain border and acoustical fleece)	96 x 6 x 5/8"	
5493_-----	8" Microperforated (with plain border and acoustical fleece)	96 x 8 x 5/8"	
8123_-----	10" Microperforated (with plain border and acoustical fleece)	96 x 10 x 5/8"	
5571_-----	12" Microperforated (with plain border and acoustical fleece)	96 x 12 x 5/8"	

♦ When specifying or ordering, include the appropriate 2-, 3-, 4-, or 5-letter color suffix (e.g., 5490 W H, 5490 W H 2, 5490 E X C H, 5490 E X C H 2).  
\* NRC 0.85 with optional fiberglass infill. For acoustical infill panel information, see page 209.

## PERFORMANCE

Dots represent high level of performance.

Fire Rating	Light Reflect (White Only)	Durability					Acoustics NRC
		Wash	Scrub	Impact	Scratch	Soil	
Class A	0.77	•	•	•	•	•	N/A
Class A	0.77	•	•	•	•	•	N/A
Class A	0.77	•	•	•	•	•	N/A
Class A	0.77	•	•	•	•	•	N/A
Class A	0.77	•	•	•	•	•	N/A
Class A	0.61	•	•	•	•	•	N/A
Class A	0.61	•	•	•	•	•	0.70 0.85*
Class A	0.61	•	•	•	•	•	0.70 0.85*
Class A	0.61	•	•	•	•	•	0.70 0.85*
Class A	0.61	•	•	•	•	•	0.70 0.85*
Class A	0.61	•	•	•	•	•	0.70 0.85*

## PHYSICAL DATA

**Material**  
Electroalvanized Steel – thickness 0.028"

**Surface Finish**  
Available in White, Silver Grey, Gun Metal Grey, and Effects™ Wood Looks powder-coated, post-production finishes. Panels are finished on both sides for exterior applications. Custom colors also available. Contact TechLine for custom color matching requests at 1 877 276 7876.

**Edge Detail**  
Square with extended flange. To create contrast visual, flange is covered with 1-1/4" Black Contrast Filler Strip item 5494.

**Fire Performance**  
Tested per ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

**ASTM E1264 Classification**  
Fire Class – Class A  
Unperforated – Type XX, Pattern G  
Perforated – Type XX, Pattern C

**Seismic Restraint**  
MetalWorks™ Linear panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

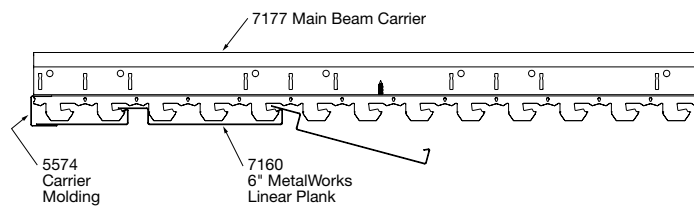
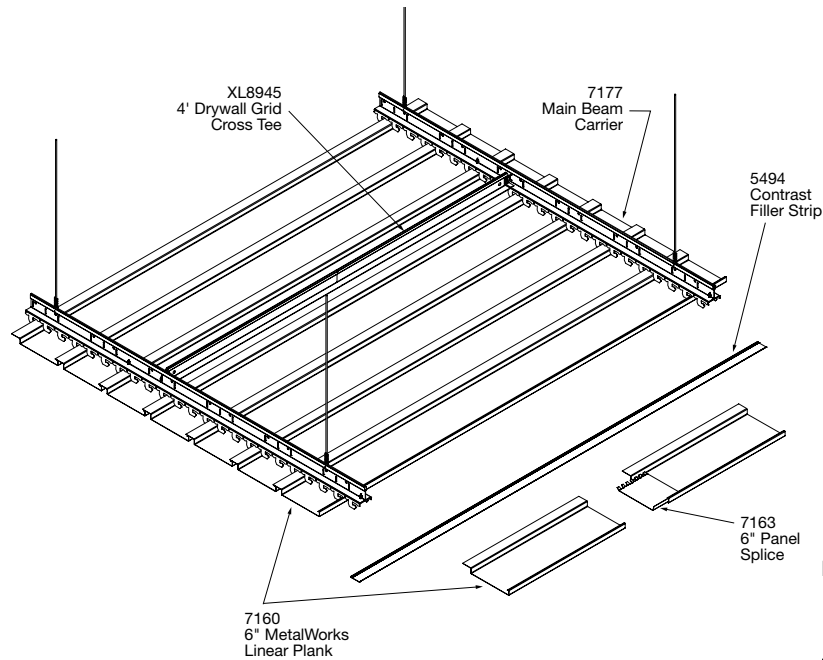
**Wind Uplift Performance**  
All panels tested for wind uplift Classes 30, 60, and 90. Specific installation recommendations to meet these wind classes are available. There is no acoustical fleece on exterior panels. For more information, contact TechLine at 1 877 276 7876.

**Warranty**  
Details at armstrongceilings.com

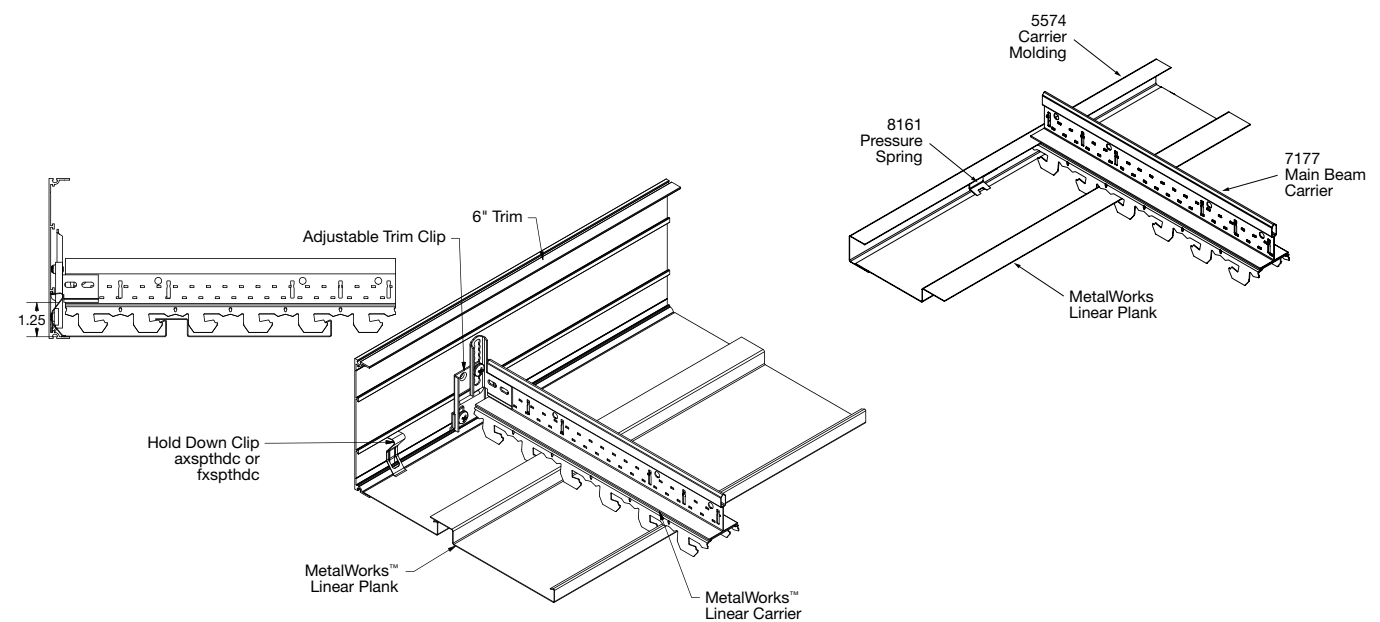
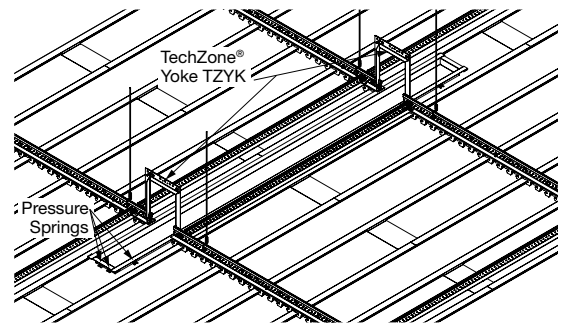
**Weight: Square Feet/Carton**  
8120, 8121 – 1.61 lbs/SF; 24 pcs/ctn or 192 LF/ctn; 32 SF/ctn  
5490, 5492 – 1.61 lbs/SF; 16 pcs/ctn or 128 LF/ctn; 43 SF/ctn  
5491, 5493 – 1.61 lbs/SF; 10 pcs/ctn or 80 LF/ctn; 53 SF/ctn  
5570, 5571 – 1.61 lbs/SF; 6 pcs/ctn or 48 LF/ctn; 48 SF/ctn  
8122, 8123 – 1.61 lbs/SF; 8 pcs/ctn or 64 LF/ctn; 53 SF/ctn  
7160, 7161 – 1.61 lbs/SF; 12 pcs/ctn or 96 LF/ctn; 48 SF/ctn

# METALWORKS™ Linear METALWORKS Linear Exterior

Installation Details



## Linear Light Integration



# METALWORKS™ Linear METALWORKS Linear Exterior

## Accessories & Suspension System Components

### ACCESSORIES

Item Number*	Description	Dimensions Nominal L x W x H (Inches)	Pieces/ Carton	Colors
8161	Pressure Spring	3/4 x 3/4 x 1-1/8"	50	–
8138_-----	2" End Cap	1 x 2 x 5/8"	50	Interior/Exterior Colors
5581_-----	4" End Cap	1 x 4 x 5/8"	50	Interior/Exterior Colors
7162_-----	6" End Cap	1 x 6 x 5/8"	50	Interior/Exterior Colors
5582_-----	8" End Cap	1 x 7 x 5/8"	50	Interior/Exterior Colors
8139_-----	10" End Cap	1 x 10 x 5/8"	50	Interior/Exterior Colors
5583_-----	12" End Cap	1 x 12 x 5/8"	50	Interior/Exterior Colors
8159	2" Panel Splice	4 x 2 x 1/2"	50	N/A
5495	4" Panel Splice	4 x 3-1/4 x 9/16"	50	N/A
7163	6" Panel Splice	4 x 6 x 1/2"	50	N/A
5496	8" Panel Splice	8 x 7-1/4 x 9/16"	50	N/A
7237	Cut Plank Support Bracket	2-1/2 x 2-1/2 x 1-1/4"	50	N/A
7239	Adjustable Trim Clip	–	25	N/A
5494	Contrast Filler Strip Black	96 x 1/4 x 1/16"	16	N/A

\* When specifying or ordering, include the appropriate 4- or 5-letter color suffix (e.g., 5574 E X C H, 5574 E X C H 2).

### TRIM Required clips must be ordered separately

Item No. ♦	Description	Dimensions Nominal L x W x H (Inches)	Pieces/ Carton	Colors
AX6VESTR__	Axiom® Vector Trim – 6" Straight	3/4 x 120 x 6"	–	WH, SG, MY, BL
AX4STR__	Axiom® Classic Trim – 4" straight	3/4 x 120 x 4"	–	WH, SG, MY, BL
5346_-----	6" Effects™ Wood Looks Trim	Nominal 120" length	6	FXMP, FXCH, FXDC, FXWN, FXOK, FXWE

\* When specifying or ordering, include the appropriate 2- or 4-letter color suffix (e.g., AX6VESTR W H, 5346 E X C H).

### SUSPENSION SYSTEM COMPONENTS

Item No.	Description	Dimensions Nominal L x W x H (Inches)	Pieces/ Carton
7177	Main Beam Carrier Assembly	144 x 1-3/4 x 2-3/4"	10
5574_-----	Carrier Molding	120 x 1 x 1"10	10
XL8945P	4' Drywall Cross Tee (for interior installations)	48 x 1-1/2 x 1-1/2"36	36
XL7936G90	3' Drywall Cross Tee (for exterior installations)	36 x 1-1/2 x 1-1/2"	36
XL8926G90	2' Drywall Cross Tee (for exterior installations)	24 x 1-1/2 x 1-1/2"	36

NOTE: Due to the non-standard suspension system of this product, call TechLine at 1 877 276 7876 to place an order.



# METALWORKS™ Mesh

Lay-in & Tegular



MetalWorks™ Mesh Linear Channeled panels in Antique Nickel with Prelude® 360° 15/16" suspension system (Pg. 450)

plus capabilities  
to do more

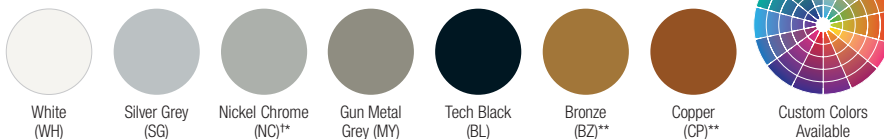
armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

Now get MetalWorks™ Mesh panels with updated patterns and tegular edges.

## KEY SELECTION ATTRIBUTES

- Thirty-two standard designs on 24" x 24" ceiling panels, including 8 new Tegular panels
- 10 standard colors, including new Antique Nickel finish, plus custom colors available
- Variety of standard colors, plus custom colors available
- Flexible design – use as accent borders, clouds, or full ceilings
- Simple installation – panels lay in standard 15/16" suspension system with borders or finished edges
- Can be used in Formations™ clouds
- Black acoustic panels provide sound absorption and hide plenum

## MESH FINISHES – Powder Coated

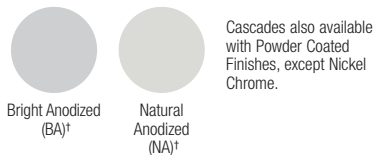


Due to printing limitations, shade may vary from actual product.

- \* Not available on Cascades
- \*\* Premium options – may have longer lead times
- \*\*\* Not available on Expanded Metal or Cascades

† Not available as a coordinating suspension system color

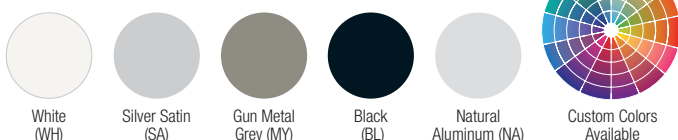
## MESH FINISHES – Anodized for Cascades



## MESH FINISHES – Plated Antique Nickel



## COORDINATING SUSPENSION SYSTEM COLORS



NOTE: Accessories and clips (such as BERC2 clip) can be specified to color match the suspension system.



# METALWORKS™ Mesh

## Lay-in & Tegular

UP TO **25%** RECYCLED CONTENT

LEED®

- energy management
- construction waste to reuse
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

For LEED contribution contact TechLine

LOCATION DEPENDENT

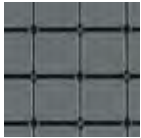
WITH INFILL PANEL

### WOVEN WIRE (1:6 scale shown)

#### Square Weave – Square Lay-in



**1Cell**  
Item 6415AM  
Spacing: 0.86" x 0.86"  
Wire Diameter: 0.11"  
% Open Area: 76%



**2Cell**  
Item 6416AM  
Spacing: 1.39" x 1.39"  
Wire Diameter: 0.135"  
% Open Area: 82%



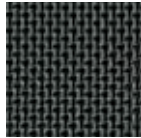
**Twin Round Narrow**  
Item 6129AM  
Spacing: 0.25"/0.57"/  
0.25"/0.57"  
Wire Diameter: 0.80"  
% Open Area: 61%



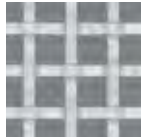
**Twin Flat Narrow**  
Item 6412AM  
Spacing: 0.25"/0.75"/  
0.25"/0.75"  
Wire Diameter: 0.92"  
% Open Area: 53%



**Twin Flat Wide**  
Item 6410AM  
Spacing: 0.75"/2.25"/  
0.75"/2.25"  
Wire Diameter: 0.375" x 0.60"  
% Open Area: 56%



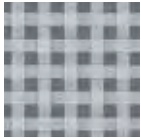
**Single Flat Narrow**  
Item 6411AM  
Spacing: 0.25" x 0.25"  
Wire Diameter: 0.92"  
% Open Area: 21%



**Single Flat Wide**  
Item 8199AM  
Wire Dimension: 0.375" x 0.60"  
% Open Area: 51%



**Quad Round Narrow**  
Item 8198AM  
Wire Diameter: 0.135"  
% Open Area: 77%



**Over-Under Square**  
Item 8200AM  
Wire Dimension: 0.250" x 0.063"  
% Open Area: 34%

#### Linear Weave – Square Lay-in



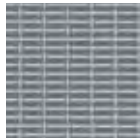
**Single Mini**  
Item 6413AM  
Spacing: 0.32" x 0.32"  
Wire Diameter: 0.63"  
% Open Area: 57%



**Single Narrow**  
Item 6414AM  
Spacing: 0.105"  
Wire Diameter: 1.105"  
% Open Area: 52%

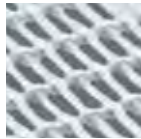


**Triple Narrow**  
Item 6128AM  
Spacing: 3.15" x 3.15"  
Wire Diameter: 0.12"  
% Open Area: 62%



**Fine Rectangular**  
Item 8203AM  
Wire Dimension: 0.80"  
% Open Area: 47%

#### Linear Weave – Tegular



**Fine Rectangular**  
Item 8195AM  
Wire Diameter: 0.80"  
% Open Area: 47%

#### Diamond Weave – Square Lay-in

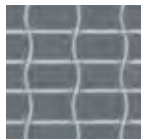


**1Diamond**  
Item 6417AM  
Spacing: 0.86" x 0.86"  
Wire Diameter: 0.11"  
% Open Area: 76%

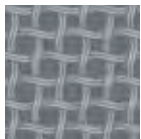


**2Diamond**  
Item 6418AM  
Spacing: 1.33" x 1.33"  
Wire Diameter: 0.14"  
% Open Area: 82%

#### Round Weave – Square Lay-in

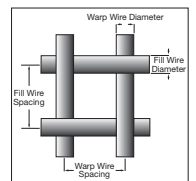


**Round Rectangular**  
Item 8201AM  
Wire Diameter: 0.105"  
% Open Area: 75%



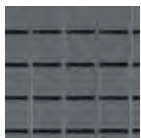
**Twin Circle**  
Item 8202AM  
Wire Diameter: 0.80"  
% Open Area: 41%

#### Wire Key

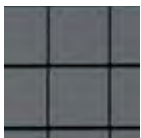


### WELDED WIRE (Actual 1:6 scale shown)

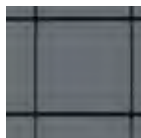
#### Welded Wire – Square Lay-in



**1Cell**  
Item 6131AM  
Spacing: 1.0" x 1.0"  
Wire Diameter: 0.120"  
% Open Area: 76%

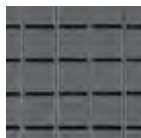


**2Cell**  
Item 6132AM  
Spacing: 2.0" x 2.0"  
Wire Diameter: 0.120"  
% Open Area: 88%



**3Cell**  
Item 6133AM  
Spacing: 3.0" x 3.0"  
Wire Diameter: 0.120"  
% Open Area: 92%

#### Welded Wire – Tegular



**1Cell**  
Item 8190AM  
Wire Diameter: 0.120"/.312"  
Tegular Edge Rod  
% Open Area: 78%



**2Cell**  
Item 8191AM  
Wire Diameter: 0.120"/.312"  
Tegular Edge Rod  
% Open Area: 88%



**Linear Channel**  
Item 8196AM  
Wire Diameter: 0.192"  
Wire Dimension: 0.044" Channel  
% Open Area: 50%



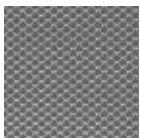
**Linear Channel with Center Hole**  
Item 8197AM  
Wire Diameter: 0.192"  
Wire Dimension: 0.044" Channel  
% Open Area: 60%

### EXPANDED METAL (Actual 1:6 scale shown)

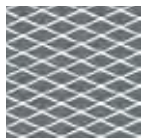
#### Expanded Metal – Square Lay-in



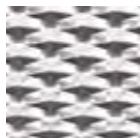
**Lattice**  
Item 6136AM  
Spacing: 0.036"  
% Open Area: 73%



**Scallops**  
Item 6137AM  
Spacing: 0.048"  
% Open Area: 61%



**Trellis**  
Item 6138AM  
Spacing: 0.060"  
% Open Area: 70%

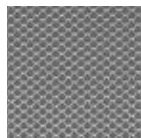


**Cascades**  
Item 6139AM  
Spacing: 0.080"  
% Open Area: 23%

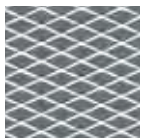
#### Expanded Metal – Tegular



**Lattice**  
Item 8192AM  
Wire Diameter: N/A  
% Open Area: 73%

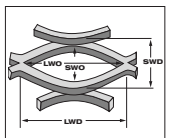


**Scallops**  
Item 8193AM  
Wire Diameter: N/A  
% Open Area: 61%



**Trellis**  
Item 8194AM  
Wire Diameter: N/A  
% Open Area: 70%

#### Expanded Metal Key



**SWD** – Short Way of Design  
**LWD** – Long Way of Design






For detailed pattern information including spacing wire diameters and open area, refer to the MetalWorks Mesh brochure BPCS-3713.



# METALWORKS™ Mesh

## Lay-in & Tegular

### VISUAL SELECTION

Edge Profile	Item Number ♦ Description	Panel Interior Opening Dimensions W x L x H (Inches)
<b>WOVEN WIRE</b>		
<b>Square Weave</b>		
Square Lay-in	<b>6129AM</b> __ Twin Round Narrow	24 x 24 x 1/4"
	<b>6410AM</b> __ Twin Flat Wide	24 x 24 x 1/4"
	<b>6411AM</b> __ Single Flat Narrow	24 x 24 x 1/4"
	<b>6412AM</b> __ Twin Flat Narrow	24 x 24 x 1/4"
	<b>6415AM</b> __ 1Cell	24 x 24 x 1/4"
	<b>6416AM</b> __ 2Cell	24 x 24 x 1/4"
	<b>8199AM</b> __ Single Flat Wide	24 x 24 x 1/4"
	<b>8198AM</b> __ Quad Round Narrow	24 x 24 x 1/4"
	<b>8200AM</b> __ Over-Under Square	24 x 24 x 1/4"
<b>Linear Weave</b>		
Square Lay-in	<b>6413AM</b> __ Single Mini	24 x 24 x 1/4"
	<b>6414AM</b> __ Single Narrow	24 x 24 x 1/4"
	<b>6128AM</b> __ Triple Narrow	24 x 24 x 1/4"
	<b>8203AM</b> __ Fine Rectangular	24 x 24 x 1/4"
<b>Linear Weave</b>		
Square Tegular	<b>8195AM</b> __ Fine Rectangular	24 x 24 x 1/4"
		
<b>Diamond Weave</b>		
Square Lay-in	<b>6417AM</b> __ 1Diamond	24 x 24 x 1/4"
	<b>6418AM</b> __ 2Diamond	24 x 24 x 1/4"
<b>Round Weave</b>		
Square Lay-in	<b>8201AM</b> __ Round Rectangular	24 x 24 x 1/4"
	<b>8202AM</b> __ Twin Circle	24 x 24 x 1/4"

♦ When specifying or ordering, include the appropriate 2-letter color suffix with the item number (e.g., 6129AM **S** **G**).  
NOTE: For acoustical infill panel information, see pgs. 156-157.

### PERFORMANCE

Dots represent high level of performance.

% Open Area	Fire Rating	Wash	Scrub	Impact	Soil
Durability					
61%	Class A	•	•	•	•
56%	Class A	•	•	•	•
21%	Class A	•	•	•	•
53%	Class A	•	•	•	•
76%	Class A	•	•	•	•
82%	Class A	•	•	•	•
51%	Class A	•	•	•	•
77%	Class A	•	•	•	•
34%	Class A	•	•	•	•
57%	Class A	•	•	•	•
52%	Class A	•	•	•	•
62%	Class A	•	•	•	•
47%	Class A	•	•	•	•
47%	Class A	•	•	•	•
76%	Class A	•	•	•	•
82%	Class A	•	•	•	•
75%	Class A	•	•	•	•
41%	Class A	•	•	•	•

### ACOUSTICAL INFORMATION

% Open Area	Infill Panel Item Number	NRC
<b>21% Open Area</b>	Single Flat Narrow	5823 0.85
		1713BL 0.70
		2820BK 0.85
<b>53% Open Area</b>	Twin Flat Narrow	5823 0.85
		1713BL 0.70
		2820BK 0.85
<b>76% Open Area</b>	1 Cell	5823 0.85
		1713BL 0.75
		2820BK 0.85

NOTE: Patterns with similar % open area will achieve similar acoustic results.

### ACOUSTICAL PANEL INSTALLATION



MetalWorks™ Mesh ceiling panel with Calla® 2820BK infill panel for high NRC performance



# METALWORKS™ Mesh





## Lay-in & Tegular

UP TO **25%** RECYCLED CONTENT

For LEED contribution contact TechLine

LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	lowbased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

### VISUAL SELECTION

Edge Profile	Item Number ♦ Description	Panel Dimensions W x L x H (Inches)
<b>WELDED WIRE</b>		
	<b>6131AM</b> __ 1Cell	24 x 24 x 1/4"
	<b>6132AM</b> __ 2Cell	24 x 24 x 1/4"
	<b>6133AM</b> __ 3Cell	24 x 24 x 1/4"
	<b>8190AM</b> __ 1Cell	24 x 24 x 1/4"
	<b>8191AM</b> __ 2Cell	24 x 24 x 1/4"
	<b>8196AM</b> __ Linear Channeled	24 x 24 x 1/4"
	<b>8197AM</b> __ Linear Channeled – Center Hole	24 x 24 x 1/4"
	<b>EXPANDED METAL</b>	
	<b>6136AM</b> __ Lattice	24 x 24 x 1/4" SWD 0.250", LWD 0.500"
	<b>6137AM</b> __ Scallops	24 x 24 x 1/4" SWD 0.295", LWD 0.394"
	<b>6138AM</b> __ Trellis	24 x 24 x 1/4" SWD 0.515", LWD 1.200"
	<b>6139AM</b> __ Cascades	24 x 24 x 1/4" SWD 0.950", LWD 2.000"
	<b>8192AM</b> __ Lattice	24 x 24 x 1/4"
	<b>8193AM</b> __ Scallops	24 x 24 x 1/4"
	<b>8194AM</b> __ Trellis	24 x 24 x 1/4"

♦ When specifying or ordering, include the appropriate 2-letter color suffix with the item number (e.g., 6129AM S G).  
 SWD = Short way of design LWD = Long way of design  
 NOTE: For acoustical infill panel information, see Pgs. 156-157.

### PERFORMANCE

Dots represent high level of performance.

% Open Area	Fire Rating	Wash	Scrub	Impact	Soil
78%	Class A	•	•	•	•
88%	Class A	•	•	•	•
92%	Class A	•	•	•	•
78%	Class A	•	•	•	•
88%	Class A	•	•	•	•
50%	Class A	•	•	•	•
60%	Class A	•	•	•	•
73%	Class A	•	•	•	•
61%	Class A	•	•	•	•
70%	Class A	•	•	•	•
23%	Class A	•	•	•	•
73%	Class A	•	•	•	•
61%	Class A	•	•	•	•
70%	Class A	•	•	•	•

### ACOUSTICAL INFORMATION

LOCATION DEPENDENT

% Open Area	Infill Panel Item Number	NRC
<b>21% Open Area</b>	Single Flat Narrow	5823 0.85
		1713BL 0.70
		2820BK 0.85
<b>53% Open Area</b>	Twin Flat Narrow	5823 0.85
		1713BL 0.70
		2820BK 0.85
<b>76% Open Area</b>	1 Cell	5823 0.85
		1713BL 0.75
		2820BK 0.85

NOTE: Patterns with similar 5 open area will achieve similar acoustic results.

### SUSPENSION SYSTEMS



(See Pgs. 391-392 for Prelude® XL® components.)  
 (See Pg. 383 for 360° Painted Grid components.)

### PHYSICAL DATA

#### Material

All items, except Cascades panels, are cold-rolled steel. Cascades panels are made of aluminum.

#### Surface Finish

All panels are available in a range of standard and custom smooth, factory-applied powder-coated finishes. Most panels can also be plated for an Antique Nickel finish which will have a variable patina for an authentic aged visual. The anodized finishes (BA, NA) are available on Cascades panels only.

#### Fire Performance

ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

All MetalWorks™ Mesh panels are non-combustible.

As with other architectural features located at the ceiling, Mesh panels may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling the heat from a fire either toward or away from the device.

For panels that do not meet the criteria for open-suspension system ceilings, as defined by NFPA 13,

a 24" x 24" mineral fiber panel should be placed on the back of the Mesh panel when installing the ceiling, with the sprinkler installed below both panels.

Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

#### Acoustics Considerations

NRC-tested using white panels. Painted panels may experience a slight reduction in NRC due to color painting processes.

#### Design Considerations

For more open MetalWorks Mesh items where the suspension system may be visible through the panels, consider using a 360° Painted Grid System coordinated with the panel color.

Item 8196 should not be field cut. Use item 8197, with 5" center hole, for sprinklers, lighting, and other mechanicals. Additionally, care should always be taken when cutting metal. Please see installation instructions for specific guidance on each type of mesh panel.

#### Installation Considerations

Hold-Down Clips may be required in some installations (see pgs. 209-210).

The edges of MetalWorks™ Mesh panels feature unique detailing. Use caution and wear appropriate hand and eye protection when installing or cutting these metal panels. Refer to Installation Instructions BPLA-297075 at armstrongceilings.com/metalworks for details and cutting recommendations.

#### Warranty

Details at armstrongceilings.com

#### Weight/Panel (Bulk Packed)

6128AM – 4.2 lbs	8192AM – 1.9 lbs
6129AM – 6 lbs	8193AM – 2.3 lbs
6131AM – 4 lbs	8194AM – 3.0 lbs
6132AM – 2.3 lbs	8196AM – 7.9 lbs
6133AM – 1.6 lbs	8197AM – 7.3 lbs
6410AM – 4.8 lbs	8198AM – 4.8 lbs
6412AM – 4.8 lbs	8199AM – 6.5 lbs
6136AM – 1.8 lbs	8200AM – 8.1 lbs
6137AM – 2.8 lbs	8195AM – 7.4 lbs
6138AM – 1.7 lbs	8203AM – 7.0 lbs
6139AM – 2.1 lbs	8201AM – 4.5 lbs
8190AM – 4.4 lbs	8202AM – 7.7 lbs
8919AM – 3.2 lbs	

#### Minimum Order Quantity

100 Square Feet



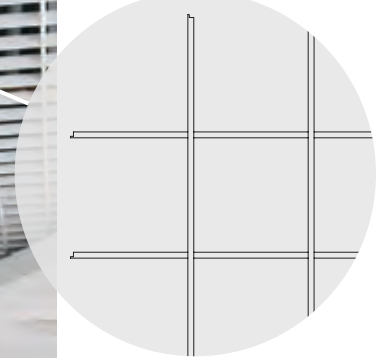
METALWORKS™

# METALWORKS™ Open Cell

## Square Lay-in



CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



plus capabilities  
 to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
 See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

MetalWorks™ Open Cell 8" Lay-in panels in White

Durable Open Cell panels are 100% accessible and offer a clean, modern design option.

### KEY SELECTION ATTRIBUTES

- Open look with crisp, white finish
- Variety of design options
- Helps mask the plenum
- Lay-in system is fast and easy to install in a standard suspension system
- Framed 24" x 24" panels create seamless visual; no need for painted grid
- Durable post-production powder-coated finish

**COLOR SELECTION** Due to printing limitations, shade may vary from actual product.



White  
 (WH)



Custom Colors  
 Available

# METALWORKS™ Open Cell Square Lay-in

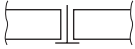




UP TO **85%** RECYCLED CONTENT  
For LEED contribution contact TechLine

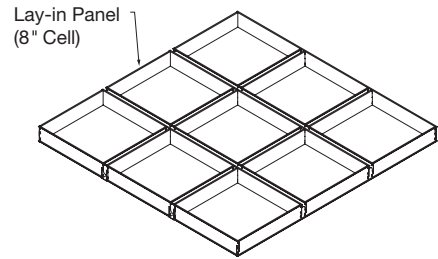
LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	bio-based materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	---------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

WITH INFILL PANEL

## VISUAL SELECTION

Edge Profile	Item No.	Dimensions (Inches) W x L Custom Sizes Available	Interior Cell Size	% Open	Fire Performance
<b>METALWORKS™ Open Cell Square Lay-in</b>					
9/16" Square Lay-in 	<b>6188</b>	24" x 24"		75%	Class A
	<b>6189</b>	24" x 24"		81%	Class A
	<b>6193</b>	24" x 24"		87%	Class A
	<b>6194</b>	24" x 24"		90%	Class A



Installs in standard 9/16" T-Bar suspension system

## ACCESSORIES

Item No.	Description	Item No.	Description
<b>6106</b>	3" Metal Infill Panel	<b>6068</b>	6" Metal Infill Panel
<b>6067</b>	4" Metal Infill Panel	<b>6109</b>	8" Metal Infill Panel

## PHYSICAL DATA

**Material**  
Aluminum, 0.016" thick

**Dimensions**  
Panel: Nominal 24 x 24 x 1-1/2" blade height x 9/16" blade width (matches 9/16" suspension system)

**Interior Cell Sizes**  
3", 4", 6", and 8"  
Custom cell sizes also available upon request as premium options.

**Surface Finish**  
Standard white in a powder-coated, post-production painted finish, as well as Custom colors. Contact TechLine for custom color matching requests.

**Fire Performance**  
ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

**Fire Performance with Sprinklers**  
MetalWorks™ Open Cell ceilings may affect the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device.

Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

**Seismic Restraint**  
MetalWorks Open Cell Lay-in panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong installation instructions.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight/Carton**  
Ranges from 7-20 lbs/ctn depending on interior cell size

**Square Feet/Carton**  
40 SF/ctn (panels)

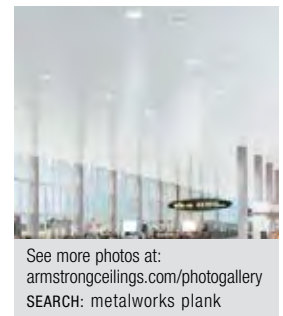
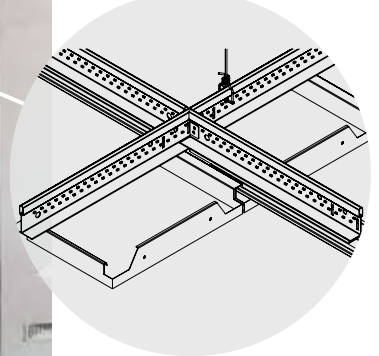
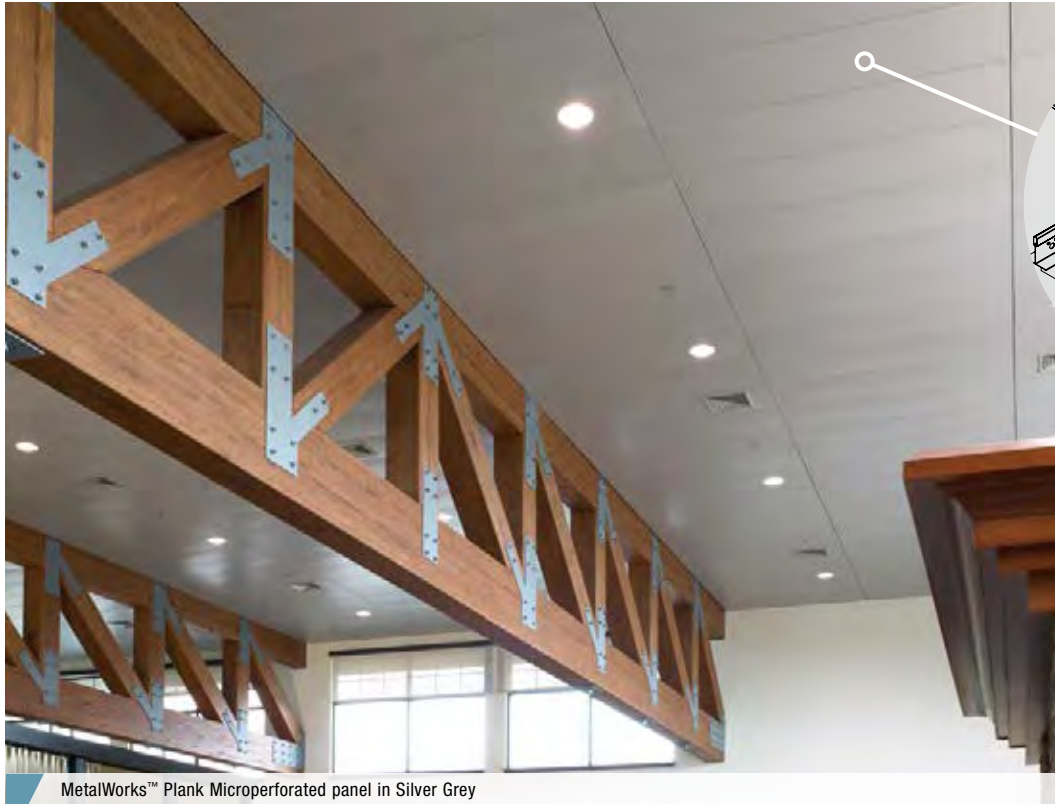


METALWORKS™

# METALWORKS™ Plank

Hook-on  
smooth texture

CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: metalworks plank

Durable, steel hook-on planks with 1/8" reveal.

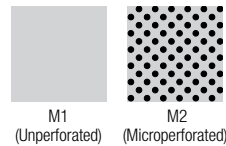
## KEY SELECTION ATTRIBUTES

- Upward accessible
- Crisp visual with narrow 1/8" reveal
- Good NRC with acoustical fleece (perforated pattern)
- Economical option with fast delivery
- Durable – Washable, Scrubbable, Impact-resistant, Soil-resistant

**COLORS** Due to printing limitations, shade may vary from actual product.



**PERFORATION OPTIONS** (1:2 scale shown)



## DETAILS



MetalWorks Plank Microperforated

# METALWORKS™ Plank

Hook-on  
smooth texture

UP TO **25%** RECYCLED CONTENT

For LEED contribution contact TechLine

- LEED®
- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

## VISUAL SELECTION

Edge Profile	Item No. ♦	Dimensions Nominal W x L (Inches)	Perforations
	<b>METALWORKS™ Plank</b>		
	5330 _ _	16" x 72"	M1
	5331 _ _	16" x 72"	M2
	5332 _ _	16" x 96"	M1
	5333 _ _	16" x 96"	M2

## PERFORMANCE

Dots represent high level of performance.

Fire Performance	Light Reflect	Wash	Scrub	Impact	Soil
Class A	0.77	•	•	•	•
Class A	0.61	•	•	•	•
Class A	0.77	•	•	•	•
Class A	0.61	•	•	•	•

## ACOUSTICAL INFORMATION

LOCATION DEPENDENT

WITH INFILL PANEL

Perforation	NRC	CAC
M1 	N/A	36
M2 	0.70**	31*

\* With optional field-cut #747 mineral fiber backing. For more information on acoustical infill panels, see Pg. 209.

\*\* With acoustical fleece only

♦ When specifying or ordering, include the appropriate color suffix with the item number (e.g., 5330 W H; 5332 S G). Light reflectance is for White only.

## ACCESSORIES

Item No. ♦	Description	Length	Pieces/Carton
5336 _ _	4-1/2" Plank Trim	10'	5
5337	Seismic Spring	N/A	100
M311081	Pressure Spring	N/A	100
M330011A	F Shadow Gap Wall Angle RA5F – WH	10'	10
M330003A	F Wall Angle RA4F – WH	10'	10
M330005A	F Wall Angle RA4F – SG	10'	10

## SUSPENSION SYSTEMS

Item Number	Description	Length	Pieces/Carton
HD8906	12' Heavy-duty Drywall Main Beam	12'	12
5335	4' Hook-on Cross Tee Assembly	4'	10

## PHYSICAL DATA

**Material**  
Electrogalvanized steel – thickness 0.028"

**Surface Finish**  
Factory-applied, powder-coated finish (post-coated)

**Fire Performance**  
Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

**Design Considerations**  
If non-standard sizes, colors, or perforations are needed, call 1 877 276-7876 for TechLine, or contact your Armstrong Ceilings representative to review the MetalWorks™ RH200 Custom Plank system. Install with minimum plenum clearance.

**Installation Consideration**  
Cut panels are non-accessible.

**Recommended Suspension System**  
Drywall Heavy-duty main beams with MetalWorks Plank Hook-on cross tees, as listed above.

**Seismic Restraint**  
MetalWorks™ Plank have been engineered, tested, and approved for application in all seismic areas, when installed per Armstrong Ceilings installation instructions.

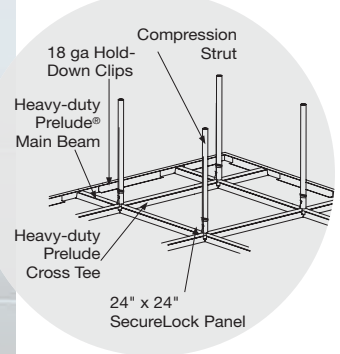
**Warranty**  
Details at armstrongceilings.com

**Weight; Panels/Carton**  
0.88 lbs/SF; 4 panels/ctn

# METALWORKS™ SecureLock™ and SecureLock™ Plus

Lay-in & Screw-in  
smooth texture

CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: metalworks  
securelock

MetalWorks™ SecureLock™ 24" x 24" panel with P4 perforation in White on Prelude® XL® 15/16" suspension system (Pgs. 458-459)

Tamper-resistant ceiling system from 18-gauge galvanized steel panels.

## KEY SELECTION ATTRIBUTES

### SecureLock™ Lay-in

- Point-load tested to withstand up to 850 lbs, and a minimum of 430 lbs
- Concealed locking
- Installs on a heavy-duty Armstrong® suspension system
- Protection against contraband concealment
- 18-gauge electrogalvanized steel

### SecureLock Plus Screw-in (custom)

- Tamper-proof plank ceiling
- System capable of withstanding 600 impacts with 200 foot-pound of energy
- Screw-in point load plank system tested to withstand 960 – 3,100 lbs of force
- 12-, 14-, and 16-gauge galvanized steel planks for added strength and durability

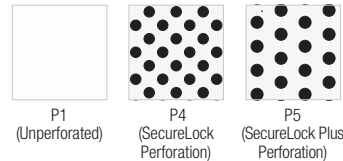
- Available in 12", 18", and 24" widths and up to 10' lengths
- Protection against contraband concealment
- Stainless steel planks

## COLOR SELECTION Due to printing limitations, shade may vary from actual product.



\* Premium finish options

## PERFORATION OPTIONS (1:2 scale shown)



## DETAILS



1. MetalWorks™ SecureLock™ Perforated
2. MetalWorks™ SecureLock™ Plus Perforated



# METALWORKS™ SecureLock™ and SecureLock™ Plus

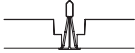
Lay-in & Screw-in  
smooth texture

UP TO **30%** RECYCLED CONTENT

For LEED contribution contact TechLine

- LEED®
- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

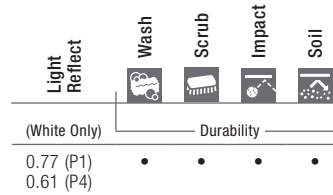
## VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions (Inches) W x L	Fire Rating	Perforations
<b>METALWORKS™ SecureLock™</b>				
	15/16" Lay-in	<b>5488_ _WH</b> 24 x 24"	Class A	P1, P4



◆ Add 2-letter perforation suffix to item number when specifying or ordering (e.g., 5488P1WH).  
NOTE: 24" x 48" panels and SecureLock Plus Custom panels are available by contacting TechLine at 1 877 276-7876.

## PERFORMANCE

Dots represent high level of performance.



## ACOUSTICAL INFORMATION

Perforation	NRC**	CAC*
P1 	-	36
P4 	0.80	38

\* With optional field-cut item 747 mineral fiber backing (cannot be used in addition to fiberglass infill item 8200T10).  
\*\* NRC 0.80 (microperforated) with optional fiberglass infill item 8200T10.

## ACCESSORIES

Item No.	Description	Dimensions (Inches)	Pieces/Carton
<b>5396</b>	24" x 24" Hold-Down Border Clips – 18-gauge	22-1/8"	Bulk
<b>5594</b>	Compression Strut	60"	Bulk
<b>5596</b>	Security Screws	-	100
<b>5597</b>	Security Screwdriver (to be used with item 5596)	-	1
<b>5598</b>	Tek Screws	-	100
<b>5650WH</b>	C Channel – 18 gauge	120"	Bulk
<b>5398</b>	Access Door – 18 gauge	24 x 24 x 1"	Bulk
<b>5965P1WH</b>	24" x 24" Exit Panel Unperforated	24 x 24 x 1"	8
<b>5965P4WH</b>	24" x 24" Exit Panel Perforated	24 x 24 x 1"	8
<b>8200T10</b>	1" Fiberglass Infill Panel	24 x 24 x 1"	12

## SUSPENSION SYSTEMS (See Pgs. 365-366 for components.)



## PHYSICAL DATA

**Material**  
Electrogalvanized Steel – thickness 18-gauge  
SecureLock Plus is available in stainless-steel as a special order.

**Surface Finish**  
Factory-applied powder-coated finish (post-coated)

**Fire Performance**  
Tested per ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

**Design/Installation Considerations**  
Panels installed in correctional facilities are recommended for supervised areas. For detailed impact and point load test results, contact TechLine at 1 877 276 7876.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
5488P1WH – 2.24 lbs/SF; 32 SF/ctn  
5488P4WH – 1.97 lbs/SF; 32 SF/ctn

# METALWORKS™ Snap-in Concealed Suspension smooth texture

*Now with  
Create! Custom  
Perforations*

**CREATE!™**

CUSTOM PERFORATIONS



MetalWorks™ Snap-in 20" x 60" panels with M16 perforation in Silverlume with Prelude® 15/16" suspension system (Pgs. 458-459)

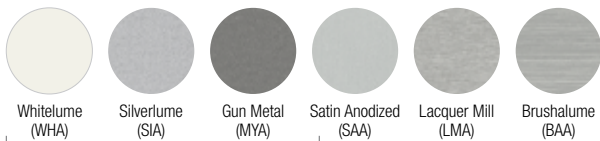
This monolithic ceiling with a concealed appearance, offers downward accessibility and excellent acoustical sound-blocking/absorption options.

## KEY SELECTION ATTRIBUTES

- new** Now, transform your images onto custom perforated MetalWorks™ Create!™ ceiling and wall panels for a unique aesthetic visual with acoustical performance
- Low-cost concealed suspension solution
- MetalWorks Snap-in panels are part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today. Unperforated (M1) panels only
- Use on a lower clearance plenum (as low as 2") when MPT snap bar is attached directly to the deck
- Downward accessible (with panel removal tool)
- A variety of standard finishes and perforations available to enhance design aesthetics and acoustical performance
- NRC values up to 0.90 with fiberglass infill panels
- Laminate finishes provide superior wood-look visual with printed vinyl bonded to aluminum; visuals other than the ones shown are also available
- Durable – Washable, Scrubbable, Impact-resistant, Soil-resistant
- Not recommended for seismic areas

## COLOR SELECTION Due to printing limitations, shade may vary from actual product.

### MetalWorks



Part of the Sustain™ portfolio, meeting sustainability compliance standards. (M1 – unperforated panels only)

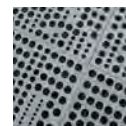
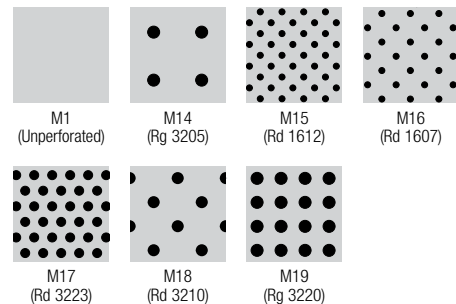
### Reflections™ Laminate Finishes



Mineral Forest (LMF)

Walnut (LWN)

## PERFORATION OPTIONS (1:2 scale shown)



*Custom Perforations Available*

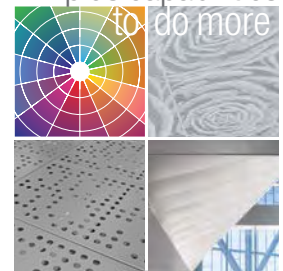


*Create! Custom Perforations Available*



Art and acoustics blend with MetalWorks™ Create!™ custom perforated panels. More at: [armstrongceilings.com/metalworkscreeate](http://armstrongceilings.com/metalworkscreeate)

plus capabilities  
to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

# METALWORKS™ Snap-in

Concealed Suspension  
smooth texture

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems  
Unperforated (M1)



UP TO **80%** RECYCLED CONTENT

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

For LEED contribution contact TechLine

## VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions (Inches) W x L Custom Sizes Available	Perforations
	<b>7216</b> _ _ _ _	12" x 48"	M1; M14-19
	<b>7215</b> _ _ _ _	24" x 24"	M1; M14-19
	<b>7217</b> _ _ _ _	24" x 48"	M1; M14-19
	<b>7219</b> _ _ _ _	30" x 30"	M1; M14-19

◆ When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 7215 **M 1 4 L M A**).

## PERFORMANCE

Dots represent high level of performance.

Light Reflect	Durability			
	Wash	Scrub	Impact	Soil
(White Only)				
0.77 (M1)	•	•	•	•
0.77 (M1)	•	•	•	•
0.77 (M1)	•	•	•	•
0.77 (M1)	•	•	•	•

## ACOUSTICAL INFORMATION

LOCATION DEPENDENT

WITH INFILL PANEL

Perforation	NRC with acoustical fleece	NRC with 1" fiberglass infill panel*
<b>M1</b> Unperforated	-	-
<b>M14</b> Rg 3205	0.55	0.85
<b>M15</b> Rd 1612	0.70	0.90
<b>M16</b> Rd 1607	0.70	0.80
<b>M17</b> Rd 3223	0.75	0.90
<b>M18</b> Rd 3210	0.65	0.85
<b>M19</b> Rg 3220	0.75	0.90

\* Maximum NRC achieved with acoustical infill (item 8200T10 or 5823). For additional infill panel options, refer to catalog Pg. 209.

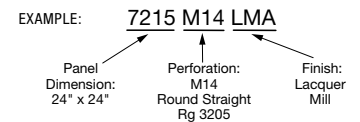
## ACCESSORIES

Item No. ◆	Description	Dimensions (Inches)	Color	Pieces/Carton
<b>7125</b> _ _ _	Box Molding	2 x 96 x 1-1/2"	WHA, SIA, MYA, SAA, LMA, BAA, BL	10
<b>7126</b>	Spreader Hold Down	1 x 10-5/8 x 1-1/2"	N/A	10
<b>5823</b>	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black	12
<b>8200T10</b>	1" Fiberglass Infill Bag	24 x 24 x 1"	Black (Gloss)	12
<b>7127</b>	Snap-in Access Tool	N/A	N/A	1

## SUSPENSION SYSTEMS

15/16" Prelude® XL® main beams (See catalog Pgs. 458-459 for components.);  
1-1/2" Drywall Grid main beams (See catalog Pgs. 497-498 for components.); Cross tee optional but recommended.

Item No.	Description	Dimensions (Inches)	Color	Pieces/Carton
<b>1-1/2" Carrying Channel</b>	Supplied by others	-	-	-
<b>MPT4500</b>	Spring Tee (Snap Bar)	-	N/A	25
<b>B4</b>	Wire Clip 1-1/2" Channel	-	N/A	1,000
<b>7132</b>	Snap Bar Hanger	3-1/4" x 5"	N/A	100
<b>7133</b>	Snap Bar Miser Clip	3-1/4" x 4-7/16"	N/A	100
<b>S45</b>	Splice for Metal Pan Main Beam	12"	N/A	250



## PHYSICAL DATA

**Material**  
Aluminum – thickness 0.040"

**Surface Finish**  
Laminates: Vinyl-faced membrane  
Painted finishes: Factory-applied polyester paint  
Custom colors and finishes available.

**Fire Performance**  
Painted aluminum finishes tested per ASTM E84.  
Flame Spread Index 25 or less. Smoke Developed Index 50 or less.  
Laminate finish tested per ASTM E84. Flame Spread Index 75 or less. Smoke Developed Index 450 or less.

**ASTM E1264 Classification**  
Fire Class A – Painted  
Fire Class B – Laminates

**Acoustical Options**  
Perforated panels are supplied with a black fiberglass fleece to absorb sound.

**Recycled Content**  
Minimum 25%. Up to 80% recycled content available.

**Design Consideration**  
Anodized and Lacquer Mill finishes may vary in shade between production runs and over time. Full-size panels may not be field-cut.

**Design Support**  
Project management assistance is available by calling TechLine at 1 877 276-7876.

**Seismic Restraint**  
This product is not recommended for seismic areas. Use MetalWorks Torsion Spring or Vector® panels in seismic conditions.

**Warranty**  
Details at armstrongceilings.com

**Weight**  
0.69 lbs/SF

TechLine / 1 877 276-7876  
armstrongceilings.com/metalworks  
(search: metalworks snap-in)  
BPCS-5118-219

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of International Living Future Institute  
Revit® is a registered trademark of Autodesk, Inc. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

# METALWORKS™ 3D

Tegular  
smooth texture

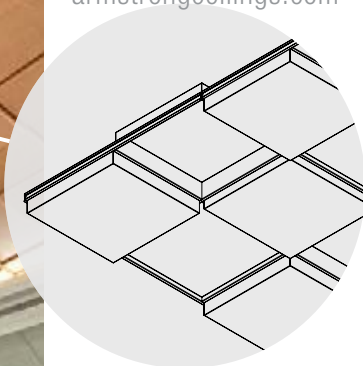
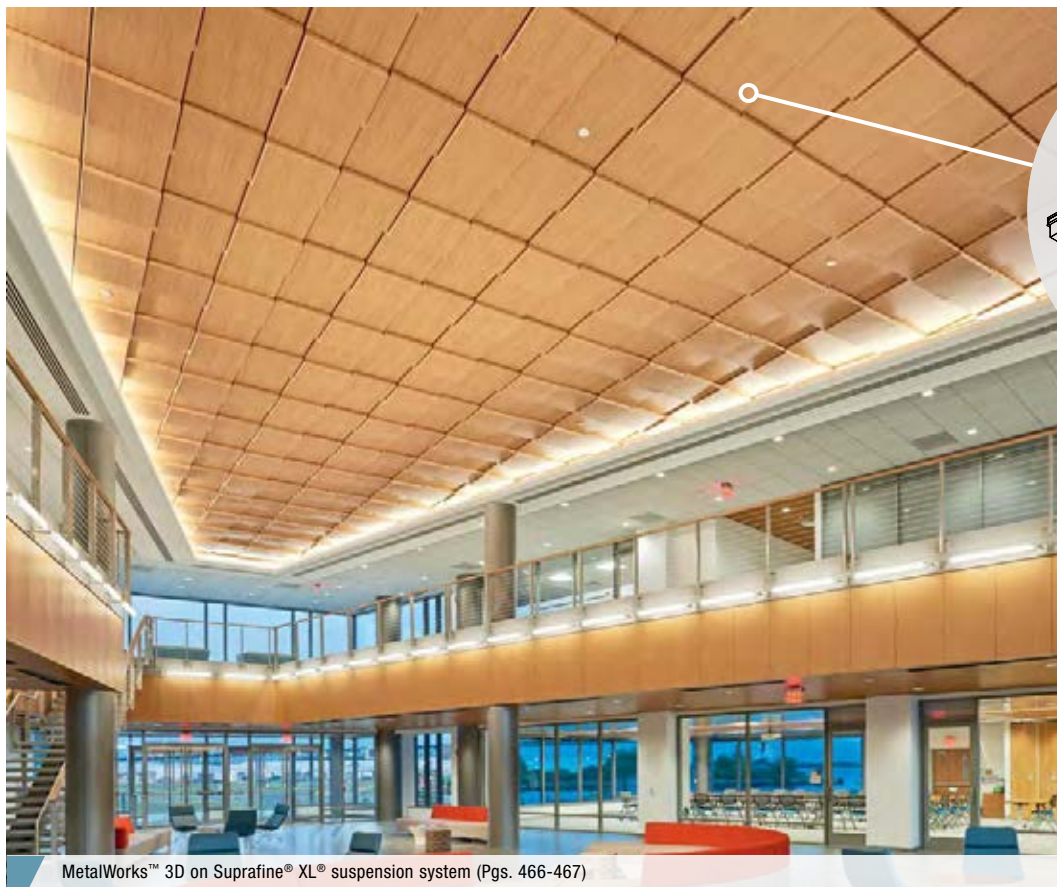


**TOTAL  
ACOUSTICS™**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)



**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems

CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



plus capabilities  
to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

MetalWorks™ 3D on Suprafine® XL® suspension system (Pgs. 466-467)

Now get Total Acoustics™ performance with MetalWorks™ 3D perforated panels – excellent noise reduction and sound blocking in one system.

## KEY SELECTION ATTRIBUTES

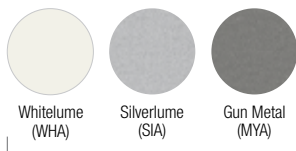


- Get total noise control and design flexibility with Total Acoustics™ ceiling panels: NRC + CAC = Total Acoustics™ performance
- Define and accentuate spaces with unique 3D look
- MetalWorks 3D panels are part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today. Unperforated (M1) panels only.
- Reflections™ laminate finishes provide wood-look visual
- Standard Tegular and 1", 2", 3", and 4" panel heights
- Easy to install
- Perforation option available for acoustics
- Durable – Washable, Scrubbable, Impact, Soil-resistant

## COLOR SELECTION

Due to printing limitations, shade may vary from actual product.

### MetalWorks™



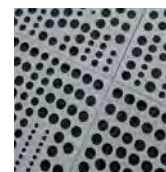
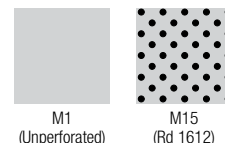
Part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today. (M1 – unperforated panels only)

### Reflections™ Laminate Finishes



## PERFORATION OPTIONS

(1:2 scale shown)



*Custom Perforations Available*

# METALWORKS™ 3D

Tegular  
smooth texture

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN™  
High Performance  
Sustainable  
Ceiling Systems  
Unperforated (M1)



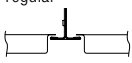
UP TO 90% RECYCLED CONTENT

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

For LEED contribution contact TechLine

## VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Fire Rating**
<b>METALWORKS™ 3D Tegular</b>			
9/16" Square Tegular	7220_-----	24 x 24 x 5/16" Down Tegular	Class A / Class B
 (dimension varies)	7220UP1_-----	24 x 24 x 1" Up Tegular	
	7220DN1_-----	24 x 24 x 1" Down Tegular	
	7220UP2_-----	24 x 24 x 2" Up Tegular	Class A / Class B
	7220DN2_-----	24 x 24 x 2" Down Tegular	
	7220UP3_-----	24 x 24 x 3" Up Tegular	
	7220DN3_-----	24 x 24 x 3" Down Tegular	Class A / Class B
	7220UP4_-----	24 x 24 x 4" Up Tegular	
	7220DN4_-----	24 x 24 x 4" Down Tegular	

◆ When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g. 7220 M 1 W H A).  
\* Light reflectance is for unperforated Whitelume.  
\*\* Class A fire rating on MetalWorks painted finishes and Class B on Reflections laminate finishes.

## PERFORMANCE

Dots represent high level of performance.

Light Reflect*	Wash	Scrub	Impact	Soil
(White Only) 0.77	•	•	•	•
0.77	•	•	•	•
0.77	•	•	•	•


Durability

## ACOUSTICAL INFORMATION

Performance determined by perforation size

LOCATION DEPENDENT

WITH INFILL PANEL

Perforation	Infill Panel Item Number	NRC	+	CAC	=	Total Acoustics <sup>1</sup>
	8200T10	0.90		N/A		-
	5823	0.90		N/A		-
	1713	0.70		37		BETTER
	2820	0.75		35		BEST
Fleece Only		0.70		N/A		-

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+)  
**BETTER** (NRC 0.70-0.75; CAC 35+)  
**BEST** (NRC 0.80+; CAC 35+)  
For perforation % open area, refer to Pg. 169.  
For infill panel information, refer to Pg. 209.

## TOTAL ACOUSTICS™ PANEL INSTALLATION

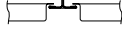


MetalWorks™ 3D ceiling panel with School Zone® Fine Fissured™ 1713 acoustic infill panel for Total Acoustics™ performance

## ACCESSORIES

Item No.	Description	Dimensions Nominal W x L x H (Inches)	Color	Pieces/ Carton
8200T10	1" Fiberglass Infill Panel	24 x 24 x 1"	Black	12
5823	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black-Matte	12
1713	School Zone® Fine Fissured™ Square Lay-in Acoustic Panel	24 x 24 x 3/4"	White	14
2820	Calla® Square Lay-in Acoustic Panel	24 x 24 x 1"	White	10

## SUSPENSION SYSTEMS

9/16"  Coordinating suspension systems and Axiom® trim available for painted colors. Black suspension and Axiom trim are suggested for Reflections™ wood looks finish. Consult armstrongceilings.com for full suspension and trim selections.

## PHYSICAL DATA

**Material**  
Aluminum – thickness 0.040"

**Surface Finish**  
Reflections™ laminate finishes: Vinyl-faced membrane  
Painted finishes: Factory-applied polyester paint  
Custom colors also available.

**Fire Performance**  
Painted aluminum tested per ASTM E84 and CAN/ULC S102. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. Laminate finishes tested per ASTM E84. Flame Spread Index 75 or less. Smoke Developed Index 450 or less.

**ASTM E1264 Classification**  
Fire Class – Class A (painted)  
– Class B (laminate)  
Unperforated – Type XX, Pattern G  
Perforated – Type XX, Pattern C

**Design Consideration**  
Panels may show a small area of exposed metal edge due to the forming process. Edge paint is available to minimize this effect.

**Seismic Restraint**  
MetalWorks™ 3D panels are approved for all seismic areas when installed per the seismic guidelines of the published Armstrong ceiling installation instructions.

**Warranty**  
Details at armstrongceilings.com

**Weight; Square Feet**  
7220 – 0.55 lbs/SF  
7220UP1 – 0.60 lbs/SF  
7220DN1 – 0.60 lbs/SF  
7220UP2 – 0.70 lbs/SF  
7220DN2 – 0.70 lbs/SF  
7220UP3 – 0.80 lbs/SF  
7220DN3 – 0.80 lbs/SF  
7220UP4 – 1.00 lbs/SF  
7220DN4 – 1.00 lbs/SF

TechLine / 1 877 276-7876  
armstrongceilings.com/metalworks  
(search: metalworks 3D)  
BPCS-5119-219

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of International Living Future Institute  
Revit® is a registered trademark of Autodesk, Inc. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America

**Armstrong**  
CEILING & WALL SOLUTIONS

# METALWORKS™ Tin

Lay-in, Tegular, and Nail-up  
smooth texture



Classic tin ceiling system available in multiple patterns with acoustic options.

### KEY SELECTION ATTRIBUTES

- Get total noise control and design flexibility with Total Acoustics™ ceiling panels: NRC + CAC = Total Acoustics Performance™
- Industry's only:
  - Extra microperforated panels
  - 9/16" Tegular panels reduce visibility of the suspension system
- Variety of standard color and pattern options in 24" x 24" Lay-in and Tegular, or 24" x 48" Nail-up sizes
- 18" x 18" Tin infill panels also available for Metaphors® Coffers
- Wide range of decorative accessories

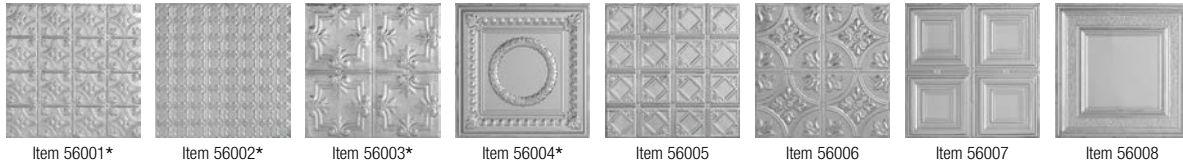
plus capabilities to do more

armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

### PATTERNS – STANDARD

(Cornice and accessory information on pg. 210)

24" x 24" (Lay-in or Tegular) or 24" x 48" (Nail-up)



\* Only items 56001, 56002, 56003, and 56004 are available with a Tegular edge detail. A variety of other patterns are available as premium options. See [armstrongceilings.com/metalworks](http://armstrongceilings.com/metalworks) for more information.

### COFFERS – STANDARD

24" x 24" (15/16" Lay-in only)



NOTE: Coffers items only available unperforated in White, Bare Steel, and Lacquered Steel finishes.

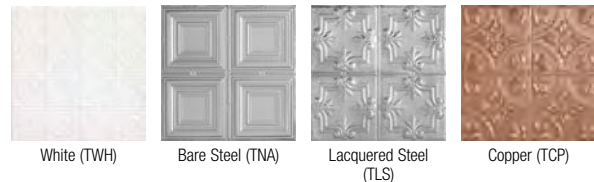
### FILLERS – STANDARD

24" x 24" (Lay-in only)



### FINISHES

(Available on standard patterns, coffers, fillers, and cornices.)



### COLOR SELECTION

Due to printing limitations, shade may vary from actual product.

#### Finishes



#### Suspension System Finishes

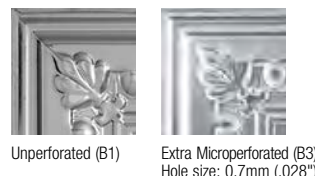


### EDGE DETAILS



1. 9/16" Lay-in (L9), 15/16" Lay-in (L5), Nail-up (NU – 24" x 48" only)
2. 9/16" Tegular (T9)
3. 15/16" Tegular (T5)

### PERFORATION OPTIONS



# METALWORKS™ Tin

Lay-in, Tegular, and Nail-up  
smooth texture

**LEED®**

- energy management
- construction waste to recycle
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- low embodied materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

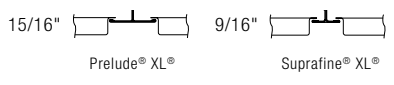
## PATTERNS – STANDARD (Cornice and accessory information on Pgs. 209-210)

Edge Profile	Item No. ♦	Dimensions (Inches)	Fire Rating
<b>METALWORKS™ Tin</b>			
(L9) (L5)	56001	24" x 24" 24" x 48" (Nail-up)	Class A
9/16" Lay-in 15/16" Lay-in	56002	24" x 24" 24" x 48" (Nail-up)	
(T9) (T5)	56003	24" x 24" 24" x 48" (Nail-up)	Class A
9/16" Tegular 15/16" Tegular	56004	24" x 24" 24" x 48" (Nail-up)	
(NU) Nail Up†	56005	24" x 24" 24" x 48" (Nail-up)	Class A
(L9) (L5)	56006	24" x 24" 24" x 48" (Nail-up)	
9/16" Lay-in 15/16" Lay-in	56007	24" x 24" 24" x 48" (Nail-up)	
(NU) Nail Up†	56008	24" x 24" 24" x 48" (Nail-up)	Class A
	56009	24" x 24" 24" x 48" (Nail-up)	
<b>Coffers</b>			
	6661B1L5	24" x 24" Coffer	Class A
15/16" Lay-in	6662B1L5	24" x 24" Coffer	

♦ When specifying or ordering, include the appropriate 2-letter edge detail, 2-letter perforation, and 3-letter color suffix with the item number. For example: 56001B1L9UN is item 56001 Unperforated 9/16" Lay-in Bare Steel. For Coffers items, include 3-letter color suffix only (TWH, TNA, TLS).  
† Nail-up panel unperforated only  
NOTE: Field painting extra microperforated panels will affect acoustical performance.

## SUSPENSION SYSTEMS

(See pgs. 391-392 for Prelude® XL® components. See Pgs. 400-401 for Suprafine® XL components.)



## PHYSICAL DATA

**Material**  
Steel – thickness .010" (Copper panels)  
Aluminum – thickness .020"

**Surface Finish**  
Copper v – plated  
Bare Steel – unfinished  
White – factory-applied powder-coated finish  
Lacquered Steel – factory-applied lacquered finish

**Fire Performance**  
ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.  
Fire Class A

**ASTM E1264 Classification**  
Fire Class – Class A  
Unperforated steel ceiling panels – Type XX, Pattern J, Z  
Perforated steel ceiling panels – Type XX, Pattern C, J, Z

## Design Considerations

Due to the strains put on the metal panels when they are embossed and the characteristics of Tegular/Lay-in edges on tin panels, it may be necessary to lay mineral fiber panels on the back to keep the tin panels flat in the grid. Fine Fissured™ Square Lay-in panels can be used, or Calla® Square Lay-in panels for Total Acoustics™ performance with perforated MetalWorks™ Tin panels.

MetalWorks Tin panels are produced from steel or aluminum and are designed to emulate an antique-type visual. Periodic "wrinkles" or dents may cause panels to appear not to be flat; these characteristics add to the antique effect and are not considered manufacturing defects.

Bare Steel is unfinished and must be field-painted to prevent tarnishing over time. The Bare Steel finish may contain slight hairline markings that are visible at eye view, but are covered when painted. For the look of natural steel, the Lacquered Steel finish is recommended. These panels are clear lacquered on both sides and come with plastic PVC to prevent scratching. See armstrongceilings.com/metalworks for more details.

Panels with the Lacquer Steel finish will have color variation from lot to lot. The transparent nature of the lacquer coating allows the color variation of the base steel to be visible. It is recommended that additional material be ordered at the same time as the original order. These panels are clear lacquered on both sides and come with plastic PVC to prevent scratching. See armstrongceilings.com/tin for more details.

**Recommended Suspension System**  
9/16" Suprafine® XL® suspension system  
15/16" Prelude® XL suspension system

**Warranty**  
Details at armstrongceilings.com

**Weight**  
Steel – 0.45 lbs/SF  
Coffers – 0.52 lbs/SF  
Aluminum – 0.38 lbs/SF

## PERFORMANCE

Dots represent high level of performance.

Light Reflect	Wash	Scrub	Impact	Soil
(White Only)	Durability			
0.77	•	•	•	•
0.77	•	•	•	•
0.77	•	•	•	•
0.77	•	•	•	•
0.77	•	•	•	•
0.77	•	•	•	•
0.77	•	•	•	•
0.77	•	•	•	•

## ACOUSTICAL INFORMATION

Performance determined by perforation size

LOCATION DEPENDENT

Edge Detail	Infill Panel Item Number	NRC	+	CAC	=	Total Acoustics††
T5	8200T10	0.85		N/A		-
	2820	0.60		40		GOOD
T9	8200T10	0.85		N/A		-
	2820	0.60		40		GOOD

†† Total Acoustics™ ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+)  
**BETTER** (NRC 0.70-0.75; CAC 35+)  
**BEST** (NRC 0.80+; CAC 35+)  
For infill panel information, refer to Pg. 209.

**EXAMPLE: 56001 B1 L9 TNA**

- Panel Dimension/Type: 24" x 24"
- Perforation: B1 Unperforated
- Edge Detail: L9 Lay-in 9/16"
- Finish: TNA Bare Steel

## TOTAL ACOUSTICS™ PANEL INSTALLATION



MetalWorks™ 3D Tin ceiling panel with Calla® 2820 acoustical infill panel for Total Acoustics™ performance

## ACCESSORIES

For accessories, including cornices, clips and perimeter trim, refer to Pgs. 209-210.



# METALWORKS™ Torsion Spring/ Torsion Spring Exterior

smooth texture

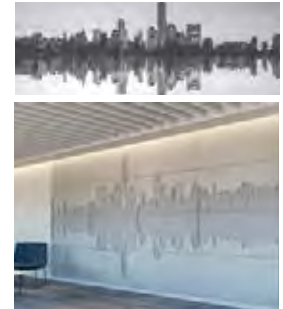
*Now with  
Create! Custom  
Perforations*

**CREATE!™**

CUSTOM PERFORATIONS



MetalWorks™ Torsion Spring panels with custom perforations in Silverlume with Prelude® XL® 15/16" suspension system (Pgs. 458-459)



Art and acoustics blend with MetalWorks™ Create!™ custom perforated panels. More at: [armstrongceilings.com/metalworkscreeate](http://armstrongceilings.com/metalworkscreeate)

plus capabilities to do more

[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at: [armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

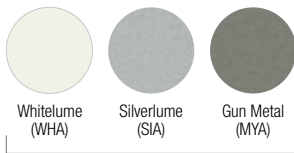
Large-size concealed panels offer a monolithic visual with 100% downward accessibility.

## KEY SELECTION ATTRIBUTES

- new** Now, transform your images onto custom perforated MetalWorks™ Create!™ ceiling and wall panels for a unique aesthetic plus acoustical performance
- Available with PureWood™ real wood veneers in three standard finishes as well as Reflections™ laminates
- MetalWorks Torsion Spring is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today\*
- Choose from a variety of standard panel sizes that install with pre-slotted standard 15/16" suspension system
- new** 48" x 48" panels are available as a premium option
- Interior panels feature swing-down accessibility
- For exterior applications, choose from 24 x 24 x 1-1/2" and 24 x 48 x 1-1/2" standard panel sizes
- Reflections™ laminate finishes provide superior wood-look visual with printed vinyl bonded to aluminum; visuals other than the ones shown are also available
- NRC values up to 0.90 with fiberglass infill panels (select perforation patterns)

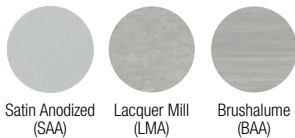
## COLOR SELECTION Due to printing limitations, shade may vary from actual product.

### MetalWorks™ – Interior and Exterior



\* Part of the Sustain™ portfolio, meeting sustainability compliance standards (M1 – unperforated panels only)

### MetalWorks – Interior Only



### Reflections™ Laminate Finishes – Interior and Exterior



### Reflections Laminate Finishes – Interior Only

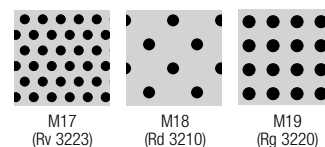
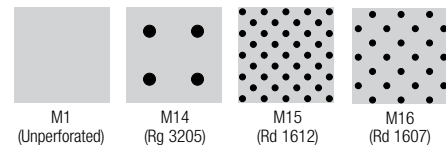


### PureWood Veneer Finishes – Interior Only

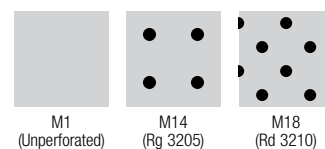


## PERFORATION OPTIONS (1:2 scale shown)

### Painted and Laminate Perforations



### PureWood Perforation Options (1:2 scale shown)





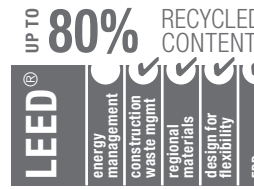
# METALWORKS™ Torsion Spring/ Torsion Spring Exterior

smooth texture



**Declare™**  
Living Building  
Challenge Compliant

**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems  
Unperforated (M1)



For LEED contribution contact TechLine



## VISUAL SELECTION

Edge Profile	Item No. ♦	Dimensions (Inches) W x L x D Custom Sizes Available
<b>METALWORKS™ Torsion Spring Square with Acoustical Fleece</b>		
Torsion Spring Square 15/16" 	<b>7209</b> _____	24 x 24 x 1-1/2"
	<b>7210</b> _____	24 x 48 x 1-1/2"
	<b>7211</b> _____	24 x 72 x 1-1/2"
	<b>7212</b> _____	24 x 96 x 1-1/2"
	<b>7213</b> _____	30 x 30 x 1-1/2"
<b>Exterior Panels</b>		
Torsion Spring Square 15/16" 	<b>7225</b> _____	24 x 24 x 1-1/2"
	<b>7226</b> _____	24 x 48 x 1-1/2"

NOTE: 48" x 48" panels are available as a premium option

- ♦ When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g., 7209 M 1 A L M A).
- \* Light reflectance is for unperforated Whitelume.
- \*\* Unperforated Whitelume light reflectance
- \*\*\* Perforated Whitelume light reflectance

## PERFORMANCE

Dots represent high level of performance.

Light Reflect*	Springs per Panel
0.77	4
0.77	4
0.77	6
0.77	6
0.77	4
0.77** 0.61***	4
0.77** 0.61***	4

## ACOUSTICAL INFORMATION

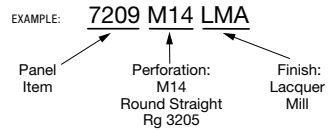
LOCATION DEPENDENT

WITH INFILL PANEL

Perforation	NRC with acoustical fleece	NRC with 1" fiberglass infill panel ††
	NRC	NRC
<b>M1†</b> 	Unperforated	-
<b>M14†</b> 	Rg 3205	0.55 0.85
<b>M15†</b> 	Rd 1612	0.70 0.90
<b>M16†</b> 	Rd 1607	0.70 0.80
<b>M17†</b> 	Rv 3223	0.70 0.90
<b>M18†</b> 	Rd 3210	0.65 0.85
<b>M19†</b> 	Rg 3220	0.75 0.90

† Available for exterior applications  
†† Maximum NRC achieved with acoustical infill (item 8200T10 or 5823).

For infill panel information, refer to Pg. 156.



## PHYSICAL DATA

**Material**  
Aluminum – thickness 0.040"  
Aluminum – thickness 0.060" (item 7226 only)

**Surface Finish**  
Reflections™ laminates: Vinyl-faced membrane  
Painted finishes: Factory-applied polyester paint  
Custom colors and finishes available.

**Fire Performance**  
Painted aluminum finishes tested per ASTM E84. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

Laminate and PureWood™ finishes tested per ASTM E84. Flame Spread Index 75 or less. Smoke Developed Index 450 or less.

**ASTM E1264 Classification**  
Fire Class A – Painted  
Fire Class B – Laminates

**Acoustical Options**  
Perforated panels are supplied with a black fiberglass fleece to absorb sound.

**Recycled Content**  
Minimum 25%. Up to 80% recycled content available.

**Code Considerations**  
The International Mechanical Code requires that materials used in or forming part of an air plenum, have a Flame Spread Rating 25 or less and a Smoke Developed Index 50 or less on all surfaces of the material including those surfaces that may be exposed by cutting the material. Exception: The IBC states, "Materials having a thickness less than 0.036 inches (0.9mm) applied directly to the surface of walls or ceilings shall not be required to be tested." Panels finished with PureWood veneers, Reflections laminates, and paint finishes typically have a thickness less than 0.036 inches (0.9mm). These finishes are applied directly to the Class A aluminum substrate.

**Design Considerations**  
Anodized and Lacquer Mill finishes may vary in shade between production runs as well as over time. Sizes can be mixed and matched on non-perforated panels only. 30" x 30" panels have a directional finish that is perpendicular to the main beams; all other panel sizes have a directional finish that is parallel to the main beams. MetalWorks™ steel and aluminum panels are made at different manufacturing facilities that use different paint systems. Because of this, similar colors, i.e., White and Whitelume, are not exact color matches. Please consider this when designing adjacent spaces with multiple MetalWorks products.

For PureWood finishes, variation among panels may occur due to the natural characteristics of the wood and grain.

**Wind Uplift Performance**  
24" x 24" and 24" x 48" panels noted for exterior flat applications tested for wind uplift Classes 30, 60, and 90. Specific installation instructions to meet these classes are available.

For more information, visit [armstrongceilings.com](http://armstrongceilings.com) or contact TechLine customer support at 1 877 276-7876.

**Design Support**  
Project management assistance is available by calling TechLine customer support at 1 877 276-7876.

**Seismic Restraint**  
MetalWorks Torsion Spring panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

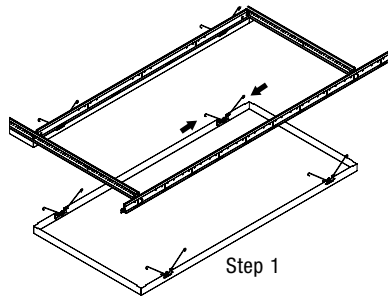
**Warranty**  
One (1) year limited warranty.  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight**  
0.69 lbs/SF  
0.86 lbs/SF (item 7226)

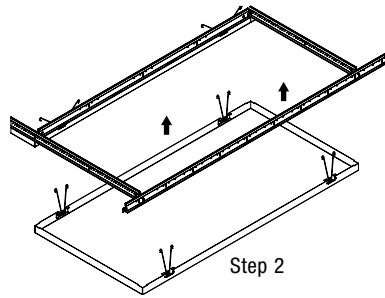
# METALWORKS™ Torsion Spring/ Torsion Spring Exterior

## Installation Details

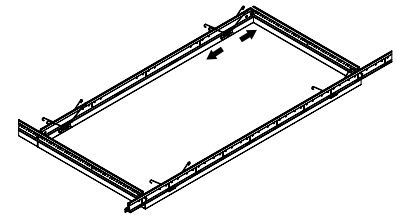
### HOW TO INSTALL PANELS



Step 1

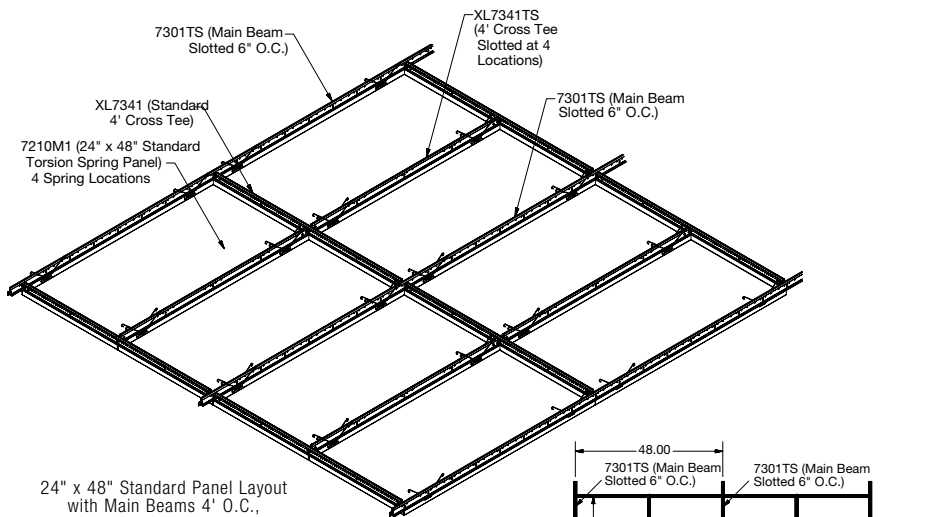


Step 2

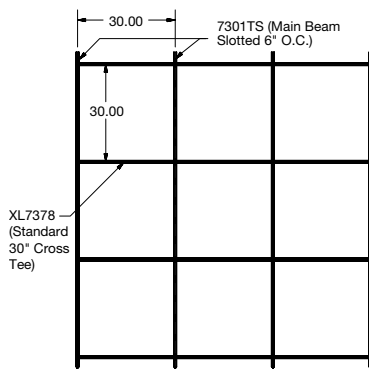


Step 3

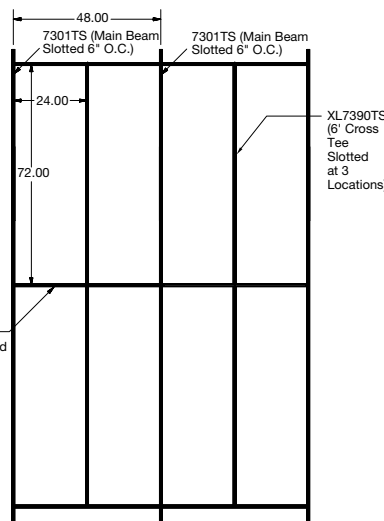
### INTERIOR INSTALLATION DETAILS – For exterior details, consult the MetalWorks™ Exterior Torsion Spring installation instructions, BPLA-297922, on our web site.



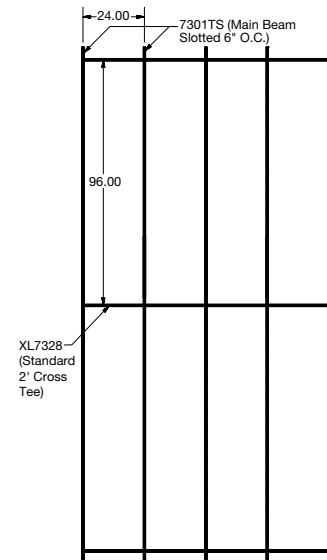
24" x 48" Standard Panel Layout  
with Main Beams 4' O.C.,  
Standard 4' Prelude® XL® Cross Tees,  
4' Slotted Cross Tees



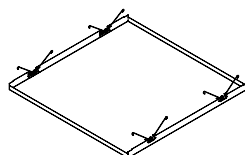
XL7378  
(Standard  
30" Cross  
Tee)



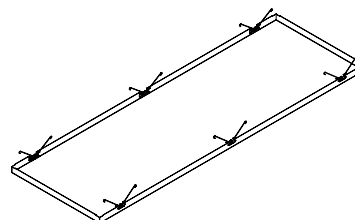
XL7341  
(Standard  
4' Cross  
Tee)



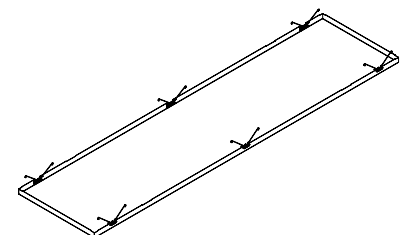
2x8 Grid Layout (Scale - 1:25)



Suspension System Layout  
for 30" x 30" Panels



Suspension System Layout  
for 24" x 72" Panels



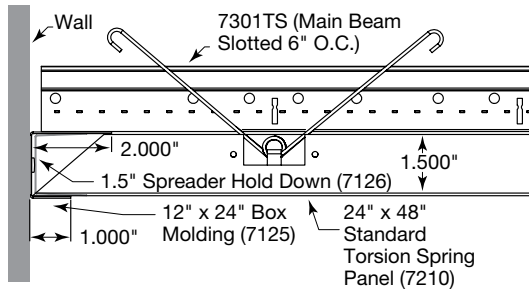
Suspension System Layout  
for 24" x 96" Panels

# METALWORKS™ Torsion Spring/ Torsion Spring Exterior

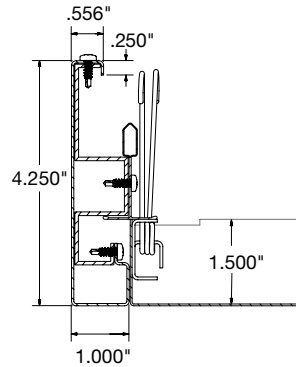
## Perimeter Details

**INTERIOR WALL PERIMETER DETAILS** – For exterior details, consult the MetalWorks™ Exterior Torsion Spring installation instructions, BPLA-297922, on our web site.

**Installation Detail – Wall Perimeter**

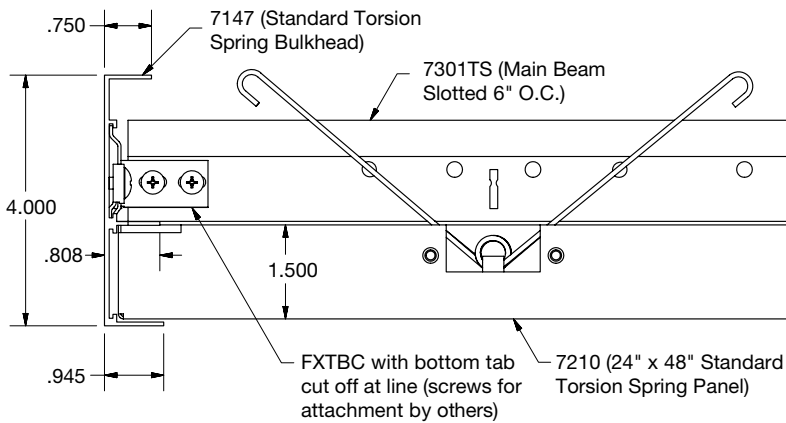


**Installation Detail – Perimeter Trim  
(Formed Trim #7131)**

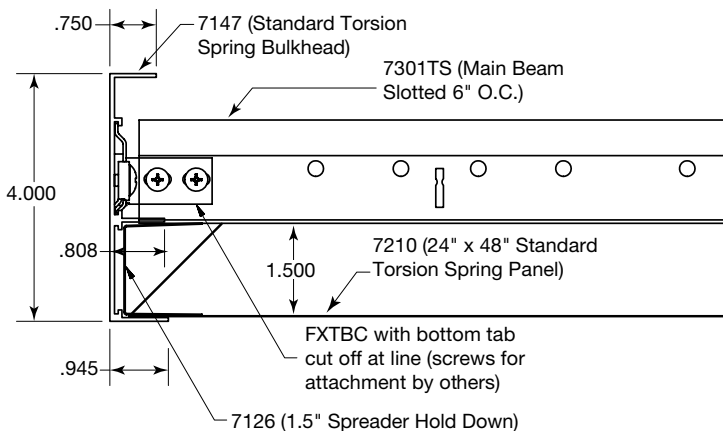


**Installation Detail – Perimeter Trim  
(Extruded Trim #7147)**

Full Panels



Cut Panels



# METALWORKS™ Torsion Spring/ Torsion Spring Exterior

## Accessories & Suspension Systems

### ACCESSORIES

Item No. ♦	Description	Dimensions (Inches) Nominal W x L x H	Color	Pieces/ Carton
7125_ _ _	Box Molding (for Laminates and PureWood™, Black is recommended)	2 x 96 x 1.5"	WHA, SIA, MYA, SAA, LMA, BAA, BL	10
7147_ _	Torsion Spring Perimeter Trim (Extruded) (for Laminates and PureWood, Black is recommended)	1 x 120 x 4"	WH, SG, MY, BL*	6
7131_ _ _	Torsion Spring Perimeter Trim (Formed)	1 x 96 x 4.25"	LMA, BAA, SAA	6
7126	Spreader Hold Down	1 x 10-5/8 x 1-1/2"	N/A	10
5823	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black	12
8200T10	1" Fiberglass Infill Bag	24 x 24 x 1"	Black (Gloss)	12
7129	Torsion Spring Hook Access Tool	N/A	N/A	1
7130	Torsion Spring Suction Access Tool	N/A	N/A	1

♦ When specifying or ordering, include the appropriate color code with the item number (e.g. 7131 K M A)

\* Coordinates with WHA, SIA, MYA Torsion Spring Panel finish

### SUSPENSION SYSTEMS

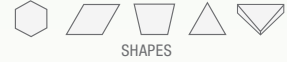
Item No.	Description	Dimensions (Inches)
<b>15/16" Prelude® XL® Suspension System</b> – Some items slotted for Torsion Spring. See below.		
7301TS	Prelude XL 12' HD Main Beam – slotted for Torsion Spring	144 x 15/16 x 1-11/16"
XL7341TS	Prelude XL 4' Cross Tee – slotted for Torsion Spring	48 x 15/16 x 1-11/16"
XL7390TS	Prelude XL 6' Cross Tee – slotted for Torsion Spring	72 x 15/16 x 1-11/16"
XL7378	Prelude XL 30" Cross Tee	30 x 15/16 x 1-11/16"
XL8320	Prelude XL 2' Cross Tee	24 x 15/16 x 1-11/16"
XL7341	Prelude XL 4' Cross Tee	48 x 15/16 x 1-11/16"
<b>Exterior Suspension System</b>		
<b>15/16" Prelude XL</b> – Some items slotted for Torsion Spring. See below.		
7301G90ATS	Prelude XL 12' HD Exterior Main Beam – slotted for Torsion Spring	144 x 15/16 x 1-11/16"
XL7341G90ATS	Prelude XL 4' Exterior Cross Tee – slotted for Torsion Spring	48 x 15/16 x 1-11/16"
XL7321G90A	Prelude XL 2' Exterior Cross Tee	24 x 15/16 x 1-11/16"

LEED® is a registered trademark of the U.S. Green Building Council  
 Declare™ is a service mark of International Living Future Institute  
 Revit® is a registered trademark of Autodesk, Inc.  
 All other trademarks used herein are the property of AWI Licensing LLC  
 and/or its affiliates © 2018 AWI Licensing LLC  
 Printed in the United States of America

**new** METALWORKS™  
Torsion Spring Shapes  
smooth texture



METALWORKS™  
TORSION SPRING  
SHAPES



**Personalize Your Design!**

Mix and match different shapes and colors in 2D and 3D to add a new dimension in ceilings. More at:

[armstrongceilings.com/torsionspringshapes](http://armstrongceilings.com/torsionspringshapes)



MetalWorks™ Torsion Spring Shapes 3D triangle panels in Whitelume and Gun Metal

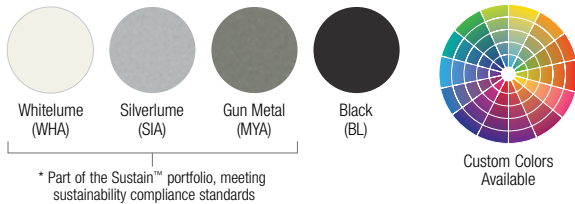


Create a custom, signature look with standard MetalWorks™ Torsion Spring Shapes ceiling panels in 2D or 3D patterns.

**KEY SELECTION ATTRIBUTES**

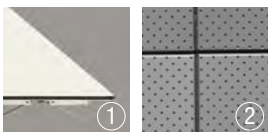
- Twelve 2D standard shapes that install in 24" module
- Three hexagon shapes including perimeter solutions that install in 30" module
- Three 3D triangular panels that install in 24" module
- Available unperforated or M21 perforated for acoustical solutions
- Shapes install with pre-slotted standard Prelude® XL® 15/16" suspension system
- Durable factory-applied gasket ensures even reveals and highlights geometric designs
- MetalWorks™ Torsion Spring Shapes are part of the Sustain™ portfolio and meet the most stringent sustainability compliance standards today
- Panels feature swing-down accessibility

**COLOR SELECTION** Due to printing limitations, shade may vary from actual product.



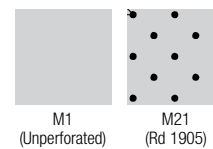
MetalWorks™ Torsion Spring Shapes 2D Hexagon pattern in Whitelume, Silverlume, and Gun Metal with drywall surround

**DETAILS**

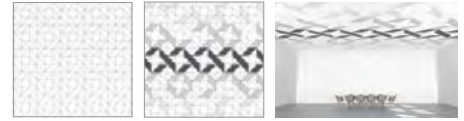


1. Edge of panel with gasket shown
2. M21 perforation across entire face of panel shown

**PERFORATION OPTIONS** (1:2 scale shown)



Start your design process with a visit to our online pattern gallery at: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery)  
 See dozens of pre-designed renderings in our online pattern gallery or design your own!



**3D SHAPES AND PERIMETER SOLUTIONS ON 24" X 24" GRID**

**45° SHAPES**

**3D Triangles**  
 Nominal Dimensions

Item No.	Description
<b>8219T01</b> _____	Triangle
<b>8219T02</b> _____	Triangle
<b>8219T03</b> _____	Triangle

When specifying or ordering, include the appropriate performance and color suffix with the item number (e.g. 8219T01M 2 1 W H A).

**90° SHAPES**

**2D Rectangles (For borders and MEP integration)**  
 Nominal Dimensions

Item No.	Description
<b>8216R01</b> _____	Rectangle
<b>8216R02</b> _____	Rectangle
<b>8216R03</b> _____	Rectangle
<b>8216R04</b> _____	Rectangle

**PERFORMANCE**

Light Reflectance	Perforation	NRC with acoustical fleece
0.75	M1 Unperforated	-
-	M21 Rd 1905	0.70

NOTE: Light reflectance is for Whitelume

**INTEGRATION SOLUTIONS FOR 24" MODULE TECHNICAL ZONES**

Item No.	Description	Perforations	Colors	Pieces per Carton
<b>8266R01</b> _____	4" x 48" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8266R02</b> _____	4" x 72" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8266R03</b> _____	6" x 48" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8266R04</b> _____	6" x 72" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8266C01</b> _____	4" x 48" Panel with cutout for 2" Linear Lighting	M1	SIA, MYA, WHA, BL	Bulk
<b>8266C02</b> _____	6" x 48" Panel with cutout for 4" Linear Lighting	M1	SIA, MYA, WHA, BL	Bulk
<b>8218M1</b> ____	1/2" x 120" Continuous Linear Light Trim	M1	SIA, MYA, WHA, BL	10

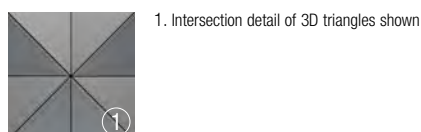
NOTE: Nominal 1-inch border around linear light. Exact cut out dimensions for lighting integration can be found in the CAD drawings on [armstrongceilings.com](http://armstrongceilings.com)  
 4" and 6" Torsion Spring slot diffuser panels available at Price Industries.

**SUSPENSION SYSTEM FOR 24" MODULE**

Item No.	Description	Pieces per Carton	4' Hanger Spacing (lbs/LF)
<b>7301TS</b>	Prelude® XL® 12' HD Main Beam – Slotted	20	16.43
<b>XL7341TS</b>	Prelude® XL® 4' Cross Tee – Slotted	60	16.43
<b>XL8320TS</b>	Prelude® XL® 2' Cross Tee – Slotted	60	16.43

NOTE: See following pages for perimeter and tool solutions.

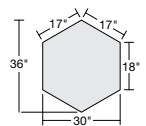
**DETAILS**



**2D HEXAGONAL SHAPES AND PERIMETER SOLUTIONS ON 30" X 15" GRID**

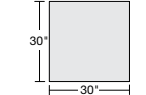
Item No.	Description	Item No.	Description
<b>8217H01</b> _____	Hexagon	<b>8217H02</b> _____	Half Hexagon
<b>8217H03</b> _____	Hexagon Perimeter		
<b>8217R01</b> _____	Rectangle		

**Hexagonals**  
 Nominal Dimensions



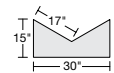
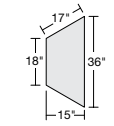
All shapes (except squares and rectangles) are shown in nominal inches.

**2D Rectangles**  
 Nominal Dimensions



When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g. 8219T01M 2 1 W H A).

**Perimeter Solutions**  
 Nominal Dimensions



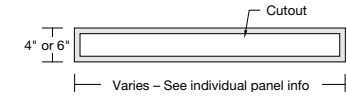
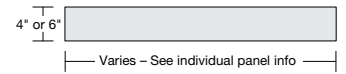
**PERFORMANCE**

Light Reflectance	Perforation	NRC with acoustical fleece
0.75	<b>M1</b> Unperforated	-
-	<b>M21</b> Rd 1905	0.70

NOTE: Light reflectance is for Whitelume

**INTEGRATION SOLUTIONS FOR 30" MODULE TECHNICAL ZONES**

Item No.	Description	Perforation	Colors	Pieces per Carton
<b>8267R01</b> _____	4" x 15" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8267R02</b> _____	4" x 18" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8267R07</b> _____	4" x 30" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8267R03</b> _____	4" x 36" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8267R04</b> _____	6" x 15" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8267R05</b> _____	6" x 18" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8267R08</b> _____	6" x 30" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8267R06</b> _____	6" x 36" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8267C01</b> _____	4" x 36" Panel with cutout for 2" Linear Lighting	M1	SIA, MYA, WHA, BL	Bulk
<b>8267C02</b> _____	6" x 36" Panel with cutout for 4" Linear Lighting	M1	SIA, MYA, WHA, BL	Bulk
<b>8218M1</b> ____	1/2" x 120" Continuous Linear Light Trim	M1	SIA, MYA, WHA, BL	10



NOTE: Nominal 1-inch border around linear light. Exact cutout dimensions for lighting integration can be found in the CAD drawings on armstrongceilings.com  
 4" and 6" Torsion Spring slot diffuser panels available at Price Industries.

**SUSPENSION SYSTEM FOR 30" MODULE**

Item No.	Description	Pieces per Carton	4' Hanger Spacing (lbs./LFT)
<b>7301TS</b>	Prelude® XL® 12' HD Main Beam – Slotted	20	16.43
<b>XL7378TS</b>	Prelude® XL® 30" Cross Tee – Slotted	60	16.43
<b>XL7378</b>	Prelude® XL® 30" Cross Tee Spring slots are positioned specifically for the hexagon system (offset by 3" versus standard spacing)	60	16.43

NOTE: See following pages for perimeter and tool solutions.

**DETAILS**



1. Intersection detail of 3D hexagon M21 perforation



**2D SHAPES AND PERIMETER SOLUTIONS ON 24" X 24" GRID**

**45° SHAPES**

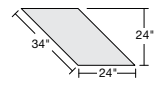
**Right Triangles**  
 Nominal Dimensions



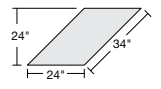
**8216T01** Triangle

All shapes (except squares and rectangles) are shown in nominal inches.

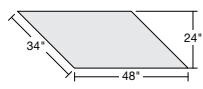
**Parallelograms**  
 Nominal Dimensions



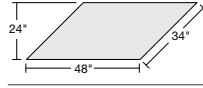
**8216P01** Left Parallelogram



**8216P02** Right Parallelogram

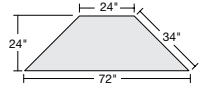


**8216P07** Left Parallelogram



**8216P08** Right Parallelogram

**Trapezoids**  
 Nominal Dimensions

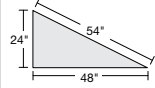


**8216Z01** Trapezoid

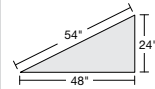
When specifying or ordering, include the appropriate perforation and color suffix with the item number (e.g. 8219T01M 2 1 W H A).

**60° SHAPES**

**Right Triangles**  
 Nominal Dimensions

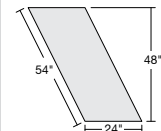


**8216T02** Right Triangle – Left

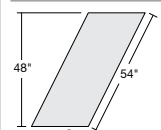


**8216T03** Right Triangle – Right

**Parallelograms**  
 Nominal Dimensions



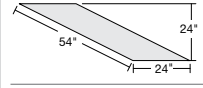
**8216P05** Left Parallelogram



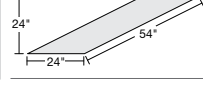
**8216P06** Right Parallelogram

**30° SHAPES**

**Parallelograms**  
 Nominal Dimensions



**8216P03** Left Parallelogram



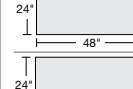
**8216P04** Right Parallelogram

**90° SHAPES**

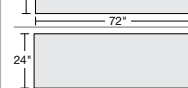
**Rectangles**  
 Nominal Dimensions



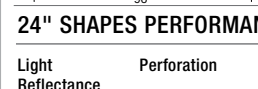
**8216R01** Rectangle



**8216R02** Rectangle



**8216R03** Rectangle



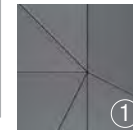
**8216R04** Rectangle

**24" SHAPES PERFORMANCE**

Light Reflectance	Perforation	NRC with acoustical fleece
0.75	M1 Unperforated	-
-	M21 Rd 1905	0.70

NOTE: Light reflectance is for Whitelume

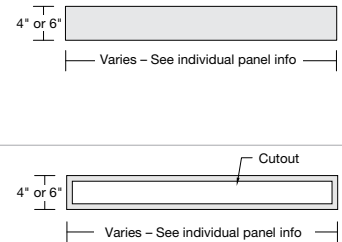
**DETAILS**



1. Intersection detail of multiple shape panels shown

**INTEGRATION SOLUTIONS FOR 24" TECHNICAL ZONES**

Item No.	Description	Perforations	Colors	Pieces per Carton
<b>8266R01</b>	4" x 48" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8266R02</b>	4" x 72" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8266R03</b>	6" x 48" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8266R04</b>	6" x 72" Panel	M1, M21	SIA, MYA, WHA, BL	Bulk
<b>8266C01</b>	4" x 48" Panel with cutout for 2" Linear Lighting	M1	SIA, MYA, WHA, BL	Bulk
<b>8266C02</b>	6" x 48" Panel with cutout for 4" Linear Lighting	M1	SIA, MYA, WHA, BL	Bulk
<b>8218M1</b>	1/2" x 120" Continuous Linear Light Trim	M1	SIA, MYA, WHA, BL	10



NOTE: Nominal 1-inch border around linear light. Exact cutout dimensions for lighting integration can be found in the CAD drawings on armstrongceilings.com  
 4" and 6" Torsion Spring slot diffuser panels available at Price Industries.

**SUSPENSION SYSTEM FOR 24" MODULE**

Item No.	Description	Pieces per Carton	4' Hanger Spacing (lbs./LFT)
<b>7301TS</b>	Prelude® XL® 12' HD Main Beam – Slotted	20	16.43
<b>XL7341TS</b>	Prelude® XL® 4' Cross Tee – Slotted	60	16.43
<b>XL8320TS</b>	Prelude® XL® 2' Cross Tee – Slotted	60	16.43

NOTE: See following pages for perimeter and tool solutions.

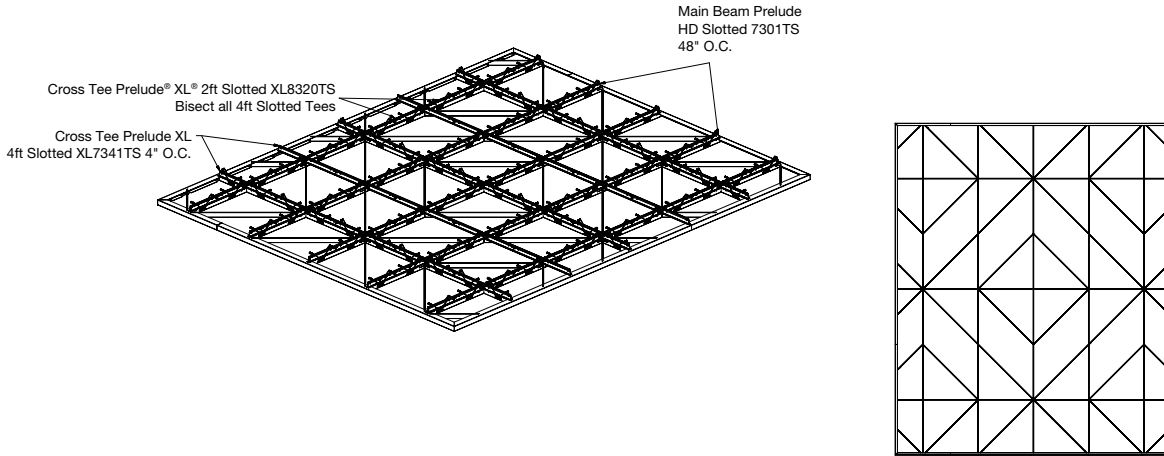




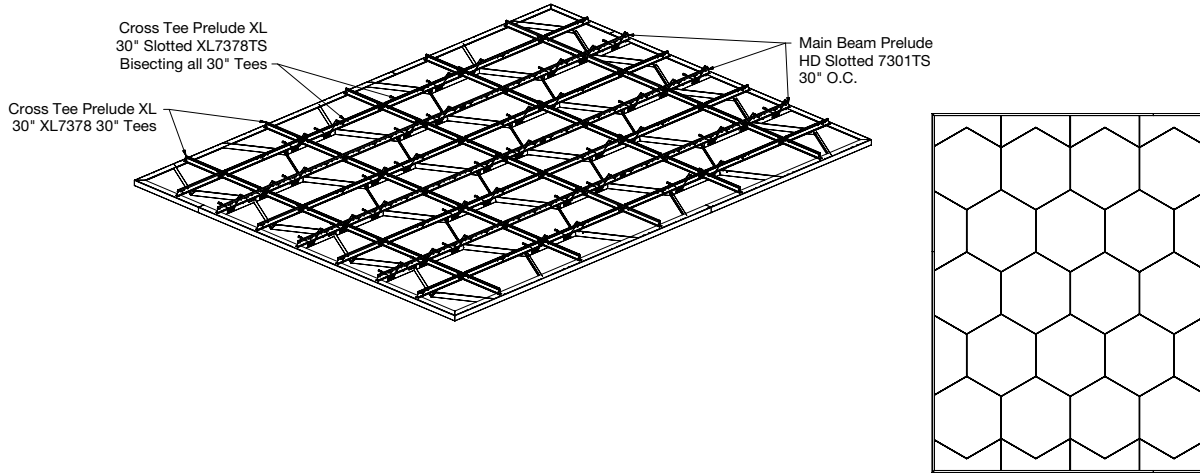
**new METALWORKS™**  
**Torsion Spring Shapes**  
 smooth texture

**SUSPENSION SYSTEM LAYOUTS**

**24" MODULE FOR 2D AND 3D PANELS WITH FULL-SIZE AND FIELD-CUT PANELS**

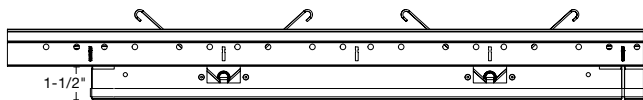


**30" X 15" MODULE FOR HEXAGONAL SHAPES FULL-SIZE PANELS**

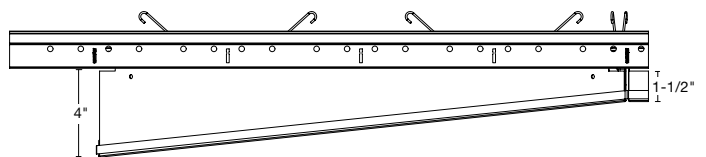


**PANEL OFFSET DETAILS**

2D Panel

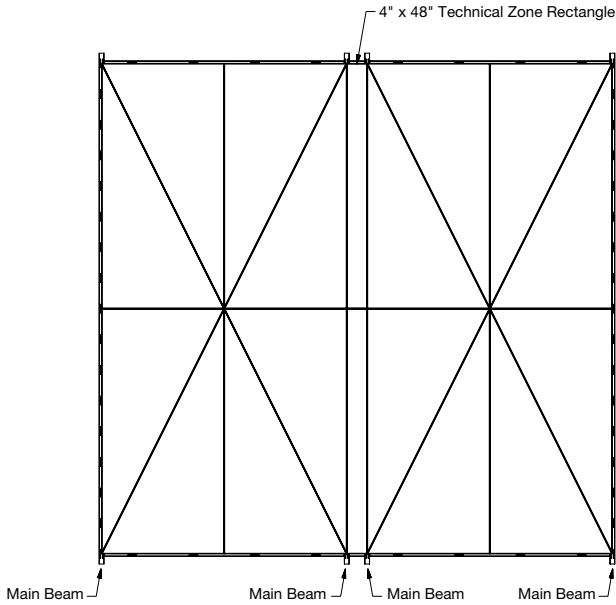


3D Panel

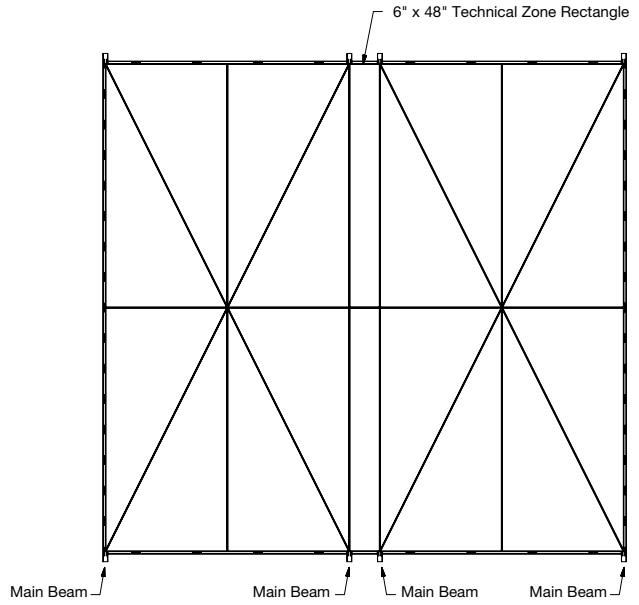


**LIGHTING INTEGRATION LAYOUTS**

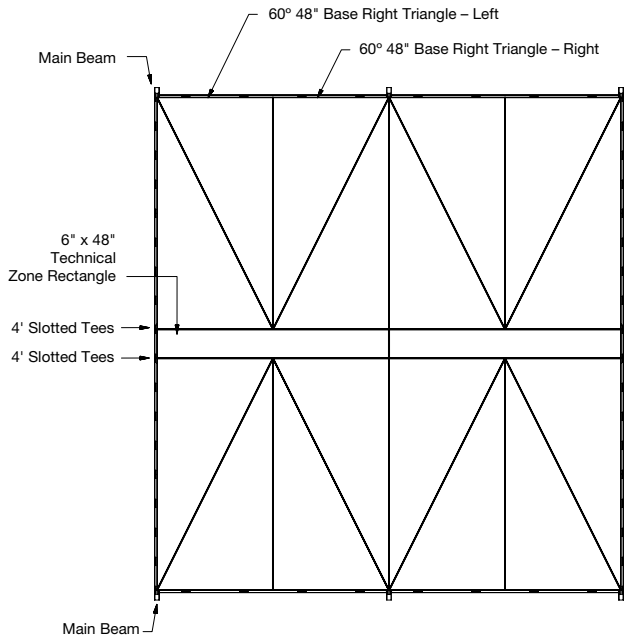
**4" TECHNICAL ZONE FACE VIEW**  
 (MUST RUN PARALLEL TO MAIN BEAM)



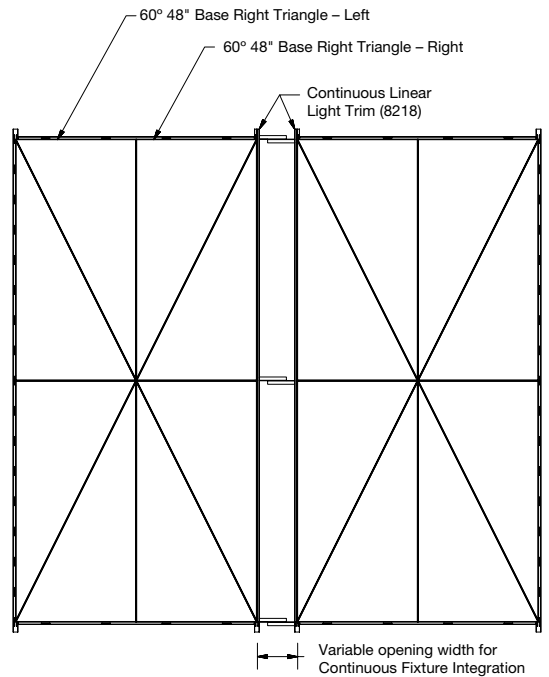
**6" TECHNICAL ZONE FACE VIEW**  
 (CAN RUN PARALLEL OR PERPENDICULAR TO MAIN BEAM)



**6" TECHNICAL ZONE FACE VIEW**



**VARIABLE OPENING FACE VIEW (3-9")**



**new METALWORKS™**  
**Torsion Spring Shapes**  
 smooth texture

**PARTNER COMPANIES** For more information on our partner companies, please visit [armstrongceilings.com/partners](http://armstrongceilings.com/partners)

Compatible with:  
 Axis Beam2 LED pendant, Backlight srl FLUSH SHY  
 Pendant Light, Price® 4" and 6" Torsion Spring Linear  
 diffusers, and Price 2' x 2' diffusers.



**ACCESSORIES**

Item No. ♦	Description	Dimensions (Inches) Nominal W x L x H	Color	Pieces/ Carton
<b>Wall-to-Wall Installs</b>				
7125_ _ _	Box Molding (use with 7126)	2 x 96 x 1-1/2"	WHA, SIA, MYA, BL	10
7126	Spreader Hold Down	1 x 10-5/8 x 1-1/2"	N/A	-
<b>Floating Cloud Installs</b>				
7147_ _	Torsion Spring Perimeter Trim (Extruded) (use with FXTBC and AXSPTHDC)	1 x 120 x 4"	WH, SG, MY, BL*	6
FXTBC	Effects™ T-Bar Connector Clip (required only if ordering 7147)	N/A	N/A	1
AXSPTHDC	Axiom® Serpentina® Hold Down Clip	N/A	N/A	-
<b>-or-</b>				
AX6STR_ _ _	6" Straight Classic Axiom Trim (install with 7239 and AXSPTHDC)	3/4 x 120 x 6"	WH, SG, MY, BL*	1
7239	Adjustable Trim Clip (ATC)	N/A	N/A	50
AXSPTHDC	Axiom Serpentina Hold Down Clip	N/A	N/A	1
<b>Other Accessories</b>				
7129	Torsion Spring Hook Access Tool	N/A	N/A	1
7130	Torsion Spring Suction** Access Tool	N/A	N/A	1
8112C02T06W37BL	Spare Gasket (100 LF per Roll)	N/A	BL	10

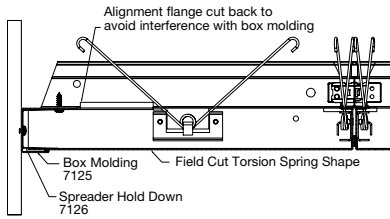
♦ When specifying or ordering, include the appropriate color code with the item number (e.g. 7125 W H A)  
 \* Coordinates with WHA, SIA, MYA Torsion Spring Panel finish  
 \*\* This tool cannot be used with perforated panels



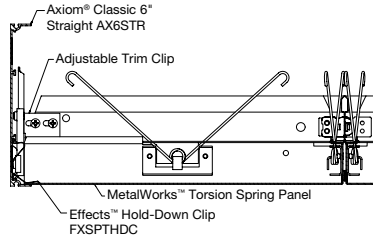
**new METALWORKS™**  
**Torsion Spring Shapes**  
 smooth texture

**WALL PERIMETER DETAILS**

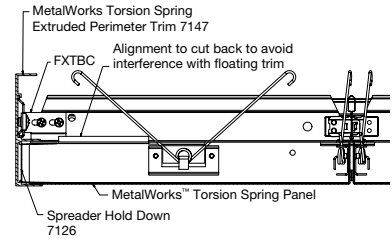
**Wall-to-Wall**



**Discontinuous Cloud**



**Discontinuous Cloud**



**PHYSICAL DATA**

**Material**  
 Aluminum – thickness 0.040"

**Surface Finish**  
 Factory-applied polyester paint  
 Custom colors and finishes available.

**Fire Performance**  
 Painted aluminum finishes tested per ASTM E84.  
 Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

2D panels are recommended for sprinkler integration, however local code official may approve sprinklers in 3D panels.

**Acoustical Options**  
 Perforated panels are supplied with a black fiberglass fleece to absorb sound.

**Recycled Content**  
 Minimum 25%. Up to 80% recycled content available.

**Design Considerations**  
 MetalWorks™ steel and aluminum panels are made at different manufacturing facilities that use different paint systems. Because of this, similar colors, i.e., White and Whitelume, are not exact color matches. Please consider this when designing adjacent spaces with multiple MetalWorks products.  
 Panel face sits 1-1/2" inches below grid face. See installation instructions for further details about plenum height requirements.

M21 perforation covers entire face of panel with no unperforated border.

For optimum visual design, backlighting panels is not recommended. For lighting integration see installation instructions.

Sprinkler, lighting, and HVAC integration is covered in detail in the installation instructions.

MetalWorks Torsion Spring Shapes panels have a durable, factory-applied gasket surrounding all edges to maintain a consistent reveal between panels and to highlight the geometric pattern of the ceiling system. Gasketed Torsion Spring Shapes panels cannot be mixed with traditional non-gasketed Torsion Spring panels such as item 7209.

**Seismic Restraint**  
 MetalWorks Torsion Spring panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

**Warranty**  
 One (1) year limited warranty.  
 Details at [armstrongceilings.com](http://armstrongceilings.com)

**Safety Considerations**  
 ▲ Item number 8217H01 contains Rare Earth Neodymium Magnets. While these magnets are commonly used in commercial applications, individuals with pacemakers, ICD's, or other implanted medical devices must use caution as magnets can impact performance of these devices. Consult physician for specific details.

**Weight**

2D Panels:  
 8216T01 – 0.96 lbs/SF  
 8216T02 – 0.84 lbs/SF  
 8216T03 – 0.84 lbs/SF  
 8216P01 – 0.82 lbs/SF  
 8216P02 – 0.82 lbs/SF  
 8216Z01 – 0.76 lbs/SF  
 8216P03 – 0.87 lbs/SF  
 8216P04 – 0.87 lbs/SF  
 8216P05 – 0.73 lbs/SF  
 8216P06 – 0.73 lbs/SF  
 8216P07 – 0.74 lbs/SF  
 8216P08 – 0.74 lbs/SF  
 Hexagons:  
 8217H01 – 0.71 lbs/SF  
 8217H02 – 0.85 lbs/SF  
 8217H03 – 0.87 lbs/SF  
 3D Triangles:  
 8219T01 – 1.09 lbs/SF  
 8219T02 – 1.09 lbs/SF  
 8219T03 – 1.21 lbs/SF

**Squares/Rect/Technical Zone:**

8216R01 – 0.78 lbs/SF  
 8216R02 – 0.71 lbs/SF  
 8216R03 – 0.71 lbs/SF  
 8216R04 – 0.70 lbs/SF  
 8217R01 – 0.71 lbs/SF  
 8266R01 – 1.22 lbs/SF  
 8266R02 – 1.28 lbs/SF  
 8266R03 – 1.02 lbs/SF  
 8266R04 – 1.05 lbs/SF  
 8267R01 – 1.38 lbs/SF  
 8267R02 – 1.62 lbs/SF  
 8267R03 – 1.29 lbs/SF  
 8267R04 – 2.00 lbs/SF  
 8267R05 – 1.31 lbs/SF  
 8267R06 – 1.06 lbs/SF  
 8267R07 – 1.36 lbs/SF  
 8267R08 – 1.12 lbs/SF  
 Light Integrated Panels:  
 8266C01 – 0.98 lbs/SF  
 8266C02 – 0.70 lbs/SF  
 8267C01 – 0.83 lbs/SF  
 8267C02 – 0.60 lbs/SF

LEED® is a registered trademark of the U.S. Green Building Council  
 Axis is owned by Axis Lighting; Backlight is owned by Backlight srl  
 Price® is trademark of Price Industries Limited  
 Declare™ is a service mark of International Living Future Institute  
 All other trademarks used herein are the property of AWI Licensing LLC  
 and/or its affiliates © 2019 AWI Licensing LLC  
 Printed in the United States of America



# METALWORKS™ Family Trim and Accessories

## TRIM Required clips must be ordered separately

Item No. ◆	Description	Dimensions (Inches) Nominal W x L x H	Colors	Pieces/ Carton	Item No.	Description	Pieces/ Carton
<b>AX2VETR</b> __	Axiom® Vector Trim – 2" Straight	3/4 x 120 x 2"	WH, SG, MY, BL	–	<b>7800</b> __	144" Hemmed Angle Molding	30
<b>AX4VETR</b> __	Axiom Vector Trim – 4" Straight	3/4 x 120 x 4"	WH, SG, MY, BL	–	<b>7835</b> __	120" Hemmed Channel Molding	20
<b>AX6VETR</b> __	Axiom Vector Trim – 6" Straight	3/4 x 120 x 6"	WH, SG, MY, BL	–	<b>7835SC</b>	Spreader Bar for Channel Molding	150
<b>5342</b> _ _ _ _	2" Effects™ Wood Looks Trim	Nominal 120" length	FXMP, FXCH, FXDC, FXWN, FXOK, FXWE	6	<b>7870</b>	Spring Border Clip	1000
<b>5344</b> _ _ _ _	4" Effects Wood Looks Trim	Nominal 120" length	FXMP, FXCH, FXDC, FXWN, FXOK, FXWE	6			
<b>5346</b> _ _ _ _	6" Effects Wood Looks Trim	Nominal 120" length	FXMP, FXCH, FXDC, FXWN, FXOK, FXWE	6			
<b>7125</b> _ _	Box Molding (for Laminates, Black is recommended)	2 x 96 x 1-1/2"	WHA, SIA, MYA, SAA, LMA, BAA, BL	6			
<b>7126</b>	Box Molding Spreader Hold Down	1 x 10-5/8 x 1-1/2"	–	10			
<b>7147</b> _ _	Torsion Spring Perimeter Trim (Extruded)	1 x 120 x 4"	WH, SG, MY, BL	6			
<b>7131</b> _ _	Torsion Spring Perimeter Trim (Formed)	1 x 96 x 4-1/4"	LMA, BAA, SAA	6			

## TRIM COLORS (Custom colors and veneers available.)

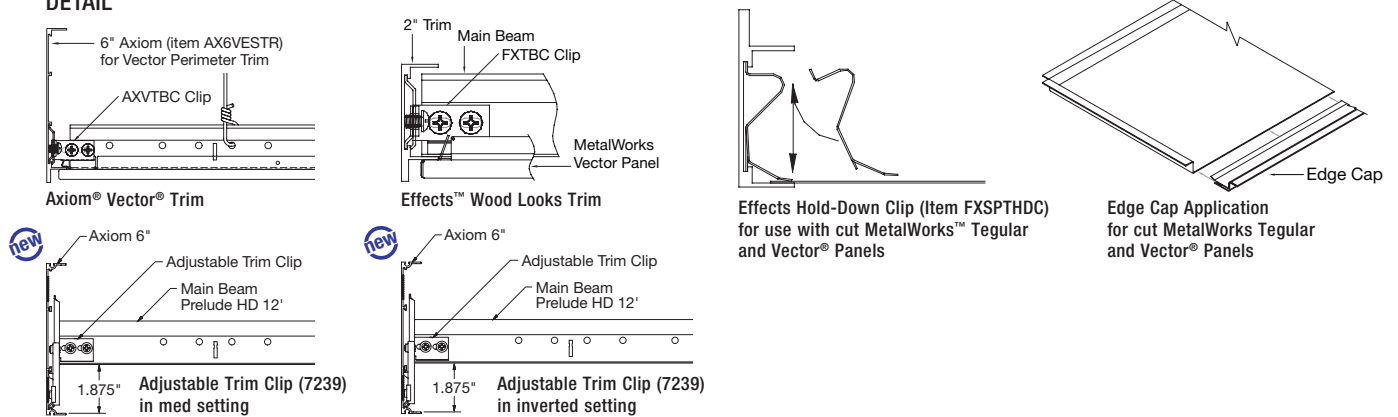
White (WH)	Satin Anodized (SAA)
Silver Grey (SG)	Lacquer Mill (LMA)
Gun Metal Grey (MY)	Brushalume (BAA)
Black (BL)	Whitelume (WHA)
Effects™ Maple (FXMP)	Silverlume (SIA)
Effects Cherry (FXCH)	Gun Metal (MYA)
Effects Dark Cherry (FXDC)	
Effects Walnut (FXWN)	
Effects Oak (FXOK)	
Effects Walnut Espresso (FXWE)	

◆ When specifying or ordering, include the appropriate 2-, 3-, or 4-letter color suffix with the item number (e.g., AXZVETR W H, 7125 W H A, or 5342 E X C H).

For information on additional Axiom Trim options and accessories see Pgs. 480-481, 491.

NOTE: Effects Wood Looks Trim cartons include FXSPICE plates and FXTBC clips.

## DETAIL

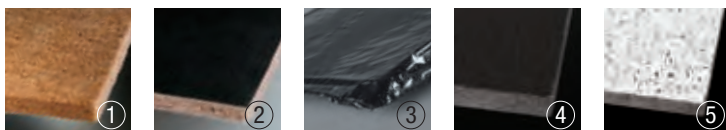


Adjustable Trim Clip (ATC; Item 7239) to integrate 6" or taller Trim with MetalWorks panels or planks that drop greater than 3/8" below the grid flange, such as Linear, Torsion Spring, or Clip-On.

## INFILL PANELS

Item No.	Description	Dimensions (Inches)	NRC	CAC	Colors	Pieces/ Carton
<b>5479</b>	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	0.75	N/A	Beige	12
<b>5823</b>	BioAcoustic Infill Panel	24 x 24 x 5/8"	0.75	N/A	Black (Matte)	12
<b>8200T10</b>	1" Fiberglass Infill Bag	24 x 24 x 1"	0.80	N/A	Black (Gloss)	12
<b>2820BL</b>	Calla® Square Lay-in Panel Black	24 x 24 x 1"	0.85	35	Black	10
<b>1728BL</b>	Fine Fissured™ Square Lay-in Panel	24 x 24 x 5/8"	0.55	33	Black	16
<b>1713</b>	School Zone® Fine Fissured™ Square Lay-in Panel	24 x 24 x 5/8"	0.70	35	White	12
<b>1714</b>	School Zone® Fine Fissured™ Square Lay-in Panel	24 x 48 x 5/8"	0.70	40	White	8
<b>2820</b>	Calla® Square Lay-in Panel	24 x 24 x 1"	0.85	35	White	10

## DETAILS



1. BioAcoustic™ Infill Panel – Beige
2. BioAcoustic™ Infill Panel – Black
3. 1" Fiberglass Infill Panel (in poly bag)
4. Fine Fissured™ Square Lay-in Panel
5. Cortega® Square Lay-in Panel

# METALWORKS™ Family Trim and Accessories

## ACCESSORIES

Item No. ◆	Description	Dimensions (Inches)	Colors	Pieces/ Carton	Item No.	Description	Dimensions (Inches)	Colors	Pieces/ Carton
<b>Panel Accessories</b>					<b>Trim Accessories (continued)</b>				
6096	15/16" Edge Cap for Cut 5/16" Tegular Panels*	Nominal 24"	WH, SG, MY, BL	50	FXSPTHDC	Effects™ Hold-Down Clip for Cut Panel Installations	-	-	10
6099	9/16" Edge Cap for Cut 5/16" Tegular Panels*	Nominal 24"	WH, SG, MY, BL	50	FHDC	Faceted Hold-Down Clip	-	-	10
6098	Vector® Edge Cap for Cut Panels	Nominal 24"	WH, SG, MY, BL	50	UHDC	Universal Hold-Down Clip	-	-	1,000
84008	Vector Single-Slot Air Diffuser	24" x 24"	WH, SG, MY, BL	1	FZUHDC	FastShip Universal Hold-Down Clip	-	-	50
<b>Trim Accessories</b>					CHDC	Clear Hold-Down Clip	-	-	50
FXSPICE	2" Splice Plate w/ Setscrews	-	N/A	10	FXTBC	Effects™ T-Bar Connector Clip	-	N/A	10
FX4SPICE	4" Splice Plate w/ Setscrews	-	N/A	10	FXVTBC	Effects™ Vector T-Bar Connector Clip	-	-	10
◆ When specifying or ordering, include the appropriate 2-letter color suffix with the item number (e.g., 6096 <u>M</u> <u>Y</u> ).					<b>new</b> 7239	Adjustable Trim Clip	-	-	50
* Edge caps in White, Silver Grey, Gun Metal Grey, and Black (for Effects™ finishes only).									

## CORNICES – STANDARD FOR USE WITH METALWORKS™ TIN (Nail-up panels only)

Item No. ◆	Description	Dimensions (Inches)	Color	Pieces/Carton
56051	Corner Molding	1-1/2 x 1-1/2 x 48"	See below	-
56053	Corner Molding	1-7/8 x 1-7/8 x 48"	See below	-
56052	Corner Molding	3 x 3 x 48"	See below	-
56054	Corner Molding	4-1/2 x 4-1/2 x 48"	See below	-
56055	Corner Molding	6-1/8 x 6-1/8 x 48"	See below	-
56056	Corner Molding	9 x 9 x 48"	See below	-
5600	Conehead Nails (installs up to 200 SF per carton)	1-1/4"	See below	-
5600HDC	Tin Hold Down Clips	-	-	200

◆ When specifying or ordering, include the appropriate 3-letter color suffix with the item number (e.g., 56051 I A M)

### CORNICES COLORS

White (TWH)      Lacquered Steel (TLS)  
Bare Steel (TNA)      Copper (TCP)

### ACCESSORIES COLORS

White (WH)      Gun Metal Grey (MY)  
Silver Grey (SG)      Black (BL)

# CASE STUDY

PROJECT: US Bank Tower Skyspace

LOCATION: Los Angeles, CA

ARCHITECT: Gensler

PRODUCT: MetalWorks™ Custom Ceiling Systems

## THE CHALLENGE:

The OUE Skyspace at the US Bank Tower offers visitors a panoramic view of Los Angeles on the 70th floor of the 72-story office building. The desire was for a space that would celebrate the romance, glamour, thrill, and optimism of Los Angeles.

The overriding design principle was based on the Los Angeles Golden Hour, the “magic hour” of cinematography, fractured light, Hollywood glamour, and an Art Deco opulence.

## THE SOLUTION:

Working with the architect, Martin Integrated, and the ceiling contractor, the Design Team at the You Inspire™ Solutions Center achieved the design intent using custom gold Armstrong® MetalWorks™ ceiling panels with a louvered look that reflected the sun, creating an art-deco visual.

Each cloud is unique and consists of uniquely-cut extruded aluminum tubes. To make sure the louvered panels fit together at the correct angles with the framing panels, the tubes were CNC-milled-and water-jetted to create the exact shapes for each cloud.

The finished result achieved the design vision and came together very quickly, enabling the Skyspace to open on time.

## HELPING YOU CREATE THE UNEXPECTED

FREE design service  
Pre-construction assistance  
Installation recommendations  
Collaborative design  
Specifications  
Budgeting and planning

1 800 988 2685

[armstrongceilings.com](http://armstrongceilings.com)

you inspire™  
solutions center

helping to bring your one-of-a-kind ideas to life

METALWORKS™ CUSTOM

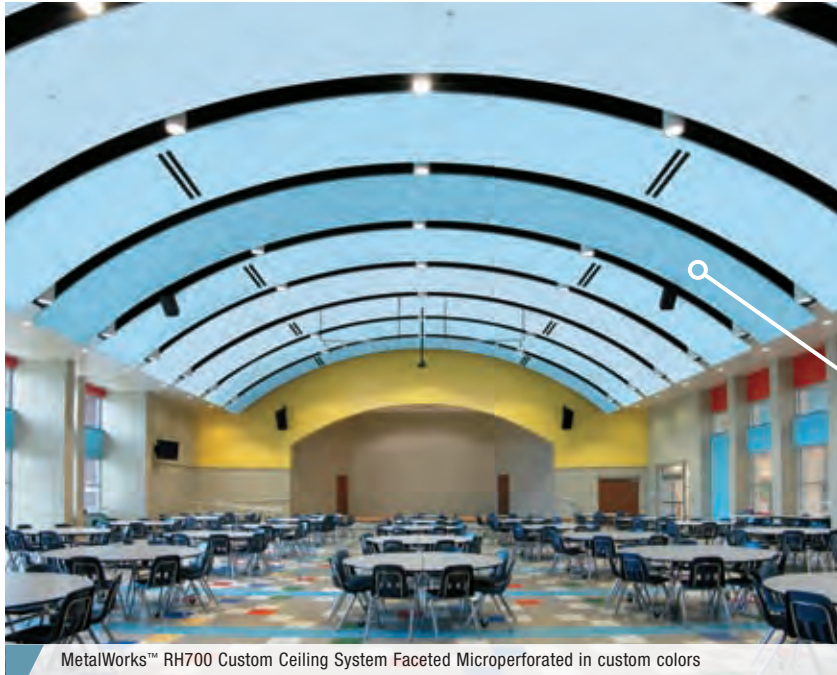
# CUSTOM CEILING SYSTEMS

## METALWORKS™ DH700 – Flat & Faceted

smooth texture

you inspire™  
solutions center

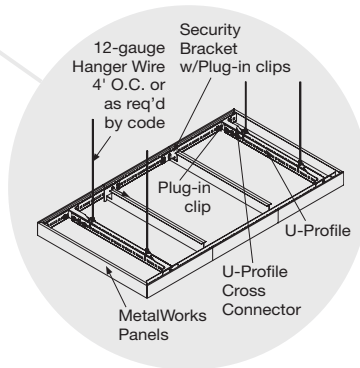
helping to bring your one-of-a-kind ideas to life



MetalWorks™ RH700 Custom Ceiling System Faceted Microperforated in custom colors

### KEY SELECTION ATTRIBUTES

- Concealed suspension ideal for cloud applications
- Accessible system utilizes U-profile and hook-on panels
- Panel length or width up to 120" dimension
- Wide variety of perforations and colors
- Curved suspension system available



# METALWORKS™ Fastrack

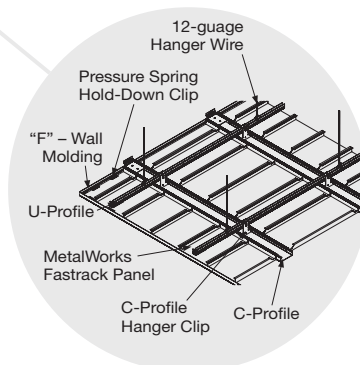
smooth texture



MetalWorks Fastrack Custom Ceiling System Microperforated in Silver Grey

### KEY SELECTION ATTRIBUTES

- Fast and easy-to-install exposed linear suspension system
- Modular system for easy lighting design and flexibility
- Fully accessible panels, minimal suspension system obstructions
- Swing-down panel options available
- C-profile widths from 4" up to 12"
- Color and surface is identical on visible suspension and infills
- Seismic approved



METALWORKS™ CUSTOM



# CUSTOM CEILING SYSTEMS

## METALWORKS™ Radial

smooth texture

you inspire™

solutions center

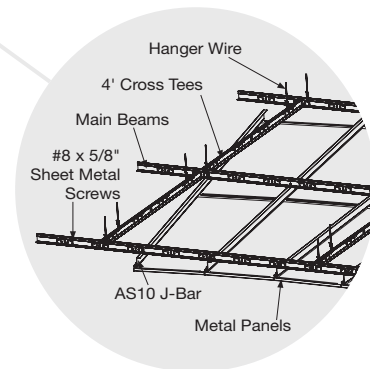
helping to bring your one-of-a-kind ideas to life



MetalWorks™ Radial RH200 Custom Ceiling System with Rd 1522 perforation in Silver Grey

### KEY SELECTION ATTRIBUTES

- Trapezoidal panels create radial effect
- System typically utilizes the RH200 J-Bar and RH215 suspension systems
- 100% downward accessible
- NRC 0.65 – 0.90 available for perforated panels
- Seismic approved
- Radial systems also available in custom WoodWorks® (page 256) and custom Optima® fiberglass Panels (Pages 362-363)



## METALWORKS™ RH200 – Interior & Exterior

smooth texture



MetalWorks RH200 Custom Ceilings and Custom Metal Walls with custom perforation

### KEY SELECTION ATTRIBUTES

- 100% downward accessible without tools
- Available in steel and aluminum
- 3mm reveal joint detail with a variety of perimeter options
- Curved metal panels can be convex or concave (interior only)
- Factory cutouts available
- Seismic approved



MetalWorks RH200 Custom Curved Ceiling System extra microperforated in White (interior use only)



**CUSTOM CEILING SYSTEMS**  
**METALWORKS™ RH215 – Flat & Faceted**  
 smooth texture

you inspire™  
 solutions center

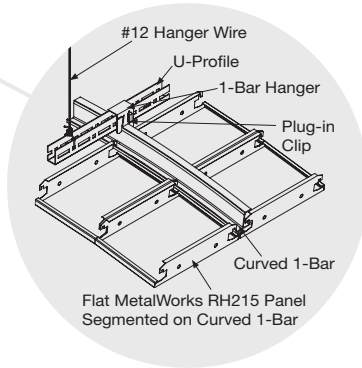
helping to bring your one-of-a-kind ideas to life



MetalWorks™ RH215 Custom Barrel Vault with perforation R93013 in custom color

**KEY SELECTION ATTRIBUTES**

- Cost-effective solution for a curved look with flat panels faceted on a curved suspension system
- Utilizes a curved 1-Bar suspension system with rectangular hook-on (RH) panels
- Downward accessible without tools
- Typical panel dimensions range from 9" – 24" wide and up to 96" long
- Seismic approved



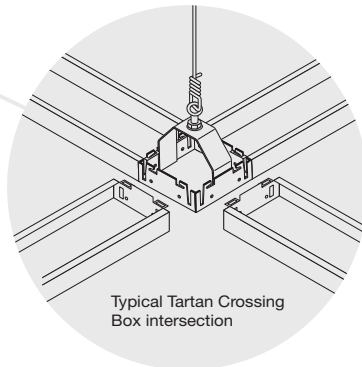
**METALWORKS™ Tartan**  
 smooth texture



MetalWorks Tartan Custom Ceiling System in Silver Grey

**KEY SELECTION ATTRIBUTES**

- Modular system offers easy integration of lighting, HVAC, and sprinklers
- Hook-on suspension based on crossing boxes and C-profiles
- Available in 4", 6", 8", and 12" widths
- Factory-cut openings in crossing boxes are ideal installation points for a variety of elements
- Tartan modules may be filled with rectangular, trapezoidal, or square panels
- Color and surface is identical on visible suspension system and infills
- Seismic approved



METALWORKS™ CUSTOM

**CUSTOM CEILING SYSTEMS**  
**METALWORKS™ TorsionSpan™**  
 smooth texture

**you inspire™**  
 solutions center

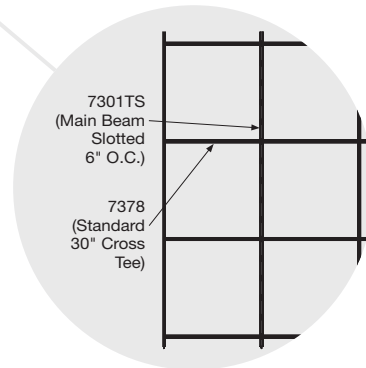
helping to bring your one-of-a-kind ideas to life



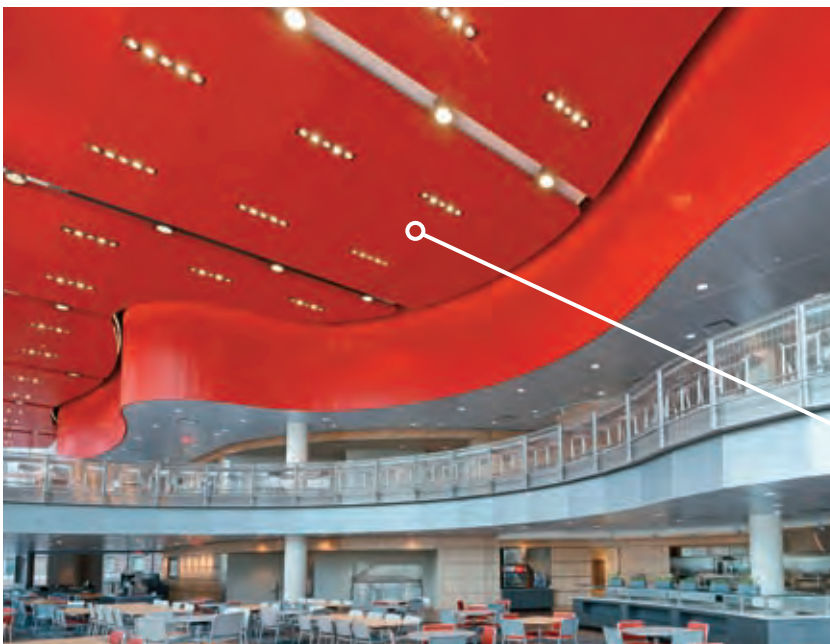
Mitered 90-degree corner in MetalWorks™ TorsionSpan™ in Whitelume

**KEY SELECTION ATTRIBUTES**

- Large panels span the entire length of the corridor
- Monolithic visual with 100% swing-down accessibility
- 24" wide panels with custom lengths up to 120"
- Multiple design options for turning 90-degree corners
- Unique installation reduces wires required to support the suspension system



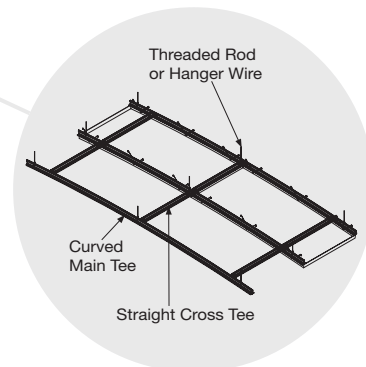
**METALWORKS™ Torsion Spring – Flat & Curved**  
 smooth texture



MetalWorks Torsion Spring, Custom Curved Panels in custom colors

**KEY SELECTION ATTRIBUTES**

- 100% downward accessible
- Butt edge detail; reveal and center scoring options available
- Custom size capabilities ranging from a minimum 12" width up to 120" length
- Cutouts for recessed lights and sprinklers available
- Wide variety of perforations and color options



METALWORKS™ CUSTOM



**TOTAL ACOUSTICS®**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)

## NRC + CAC = Total Acoustics

Total Acoustics® ceilings have an ideal combination of noise reduction and sound-blocking performance in one panel with a minimum NRC of 0.60 and CAC of 35. Now, whether you're creating a space for quiet concentration, collaboration, or confidentiality, one panel meets the needs for today's flexible spaces.

Perforated wood ceilings can provide sound absorption with the addition of mineral fiber or acoustical fleece backing.

Acoustical absorption is important to:

- Reduce noise levels and reverberation time, as well as enhance speech intelligibility

A continuous WoodWorks® ceiling with a W4 perforation and acoustical infill panel provides sound absorption (NRC 0.70), reducing reverberation by 83%. See example below.

WoodWorks® perforated panels installed with an acoustical infill panel achieve Total Acoustics® Performance.

Look for the Total Acoustics® icon on product pages that are part of this portfolio.

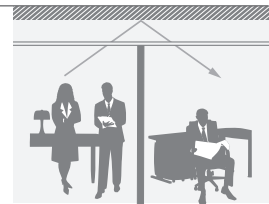
### NRC (Noise Reduction Coefficient)

A measure for rating the overall sound absorption of a material when used in an enclosed architectural space such as an office, where sound is reflected at many angles of incidence. A ceiling system with an NRC < 0.50 is considered low performance, whereas one with NRC > 0.70 is considered high performance.



### CAC (Ceiling Attenuation Class)

A measure for rating the performance of a ceiling system as a barrier to airborne sound transmission through a common plenum between adjacent closed spaces such as offices. A ceiling system with a CAC < 25 is considered low performance, whereas one with CAC ≥ 35 is considered high performance. CAC is important between closed spaces, and from closed rooms to adjacent spaces, such as corridors and open office spaces.

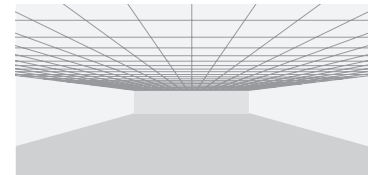


#### Example:

#### Exposed Structure



#### Continuous Ceiling



5,000 SF Exposed Structure (50' x 100'), 15' to deck, drywall with windows on two sides, commercial carpet

#### Ceiling

**NRC**

No Treatment (0% Coverage)

Continuous WoodWorks Ceiling with W4 Perforation and 2820BK acoustical infill panel

Exposed Structure

Suspended 60" Below Deck

**CAC**

3.4 sec

0.37

**Total Acoustics®**

–

**BETTER**

**Reverberation Time**

3.4 sec

0.6 sec

**RT Improvement**

ref

83%

**SPL Reduction**

ref

-5.0 dB

For definitions of acoustical terms, see Pgs. 546-547 in this catalog.

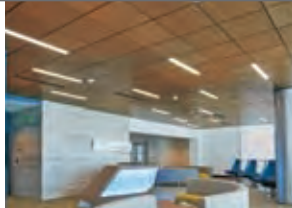
The background of the image consists of numerous thin, light-colored wooden slats arranged in a dense, overlapping pattern that creates a sense of depth and texture. The slats are oriented diagonally. In the bottom right corner, there are two overlapping geometric shapes: a dark blue triangle and an orange triangle, both pointing towards the bottom right.

# WOOD WORKS

WOODWORKS®

# WOODWORKS® Standard Ceilings At-a-Glance

## WOODWORKS® STANDARD CEILINGS



WOODWORKS® Regular Pgs. 224-227



WOODWORKS® Vector® Pgs. 228-229



WOODWORKS® Channeled Tegular Pgs. 230-231



WOODWORKS® Channeled – Vector® Pgs. 232-233



WOODWORKS® Channeled Plank Pgs. 234-235



WOODWORKS® Concealed Pgs. 236-237



WOODWORKS® Grille Tegular Pgs. 238-239



WOODWORKS® Grille Backer & Dowel Pgs. 240-243



WOODWORKS® Linear Solid Wood Panels Pgs. 244-245



WOODWORKS® Linear Veneer Panels Pgs. 246-247



WOODWORKS® Linear Veneer Planks Pgs. 248-249



WOODWORKS® Open Cell Pgs. 250-251



## WOODWORKS® CUSTOM CEILINGS



WOODWORKS® Access Flat Systems Pg. 255



WOODWORKS® Access Curved Systems Pg. 256



WOODWORKS® Radial Systems Pg. 256



WOODWORKS® Custom Ceilings Pg. 257



WOODWORKS® Torsion Spring Pg. 258



WOODWORKS® Custom Canopies (Featured in Clouds & Canopies) Pg. 115



### WOODWORKS® CEILING AND WALLS CUSTOMIZATION



WOODWORKS® Channeled Pgs. 522-523



WOODWORKS® Grille Backer & Dowel Pgs. 240-243



WOODWORKS® Linear Panels Pgs. 246-247



#### ICON KEY

Icons are used throughout the catalog to help you quickly identify key products with high level of performance.

#### High Acoustics

##### Total Acoustics® ( )))

**NRC + CAC** Perforated product has both NRC of 0.70 or greater AND CAC of 35 or higher when used with acoustic infill panels.

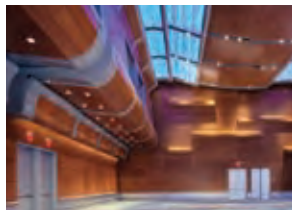
**NRC** Product has NRC (Noise Reduction Coefficient) 0.70 or greater.

**CAC** Product has CAC (Ceiling Attenuation Class) of 35 or higher.

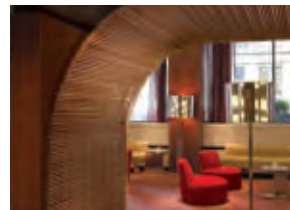
### WOODWORKS CEILING-TO-WALL TRANSITIONS



WOODWORKS® Walls (Featured in Walls) Pgs. 516-517



WOODWORKS® Grille Custom Walls (Featured in Walls) Pgs. 516-517



WOODWORKS® Grille Wall-to-Ceiling Pgs. 240-242



WOODWORKS® Linear Planks Wall-to-Ceiling Pgs. 248-249



#### Fire Performance Class A

#### Seismic

**DEF** Category D, E & F

#### High Durability

##### Washability

**Washability icon** Offers superior wash resistance without compromising panel finish integrity, using a washability tester as per modified ASTM D4828.

#### Soil Resistance

**Soil Resistance icon** Excellent resistance to dirt and/or grease for lasting value and performance.

#### Plenum Access

**Plenum Access icon** Downward access for panels minimizes panel damage.

#### Color Availability

**Color Availability icon** Available in color.

# WOOD LOOKS on Metal Ceilings

## Standard Finishes

(featured in MetalWorks Ceiling Section Pgs. 162-215)



METALWORKS™ Vector® Faceted in Effects™ Cherry

Pgs. 178-179



METALWORKS™ Tegular in Effects Cherry

Pgs. 174-177



METALWORKS™ Linear Faceted in Effects Cherry

Pgs. 184-187



METALWORKS™ Vector® in Custom Formations in Effects Cherry

Pgs. 178-179



METALWORKS™ Linear in Effects Dark Cherry

Pgs. 184-187



METALWORKS™ Vector® Faceted in Effects Dark Cherry

Pgs. 178-179



METALWORKS™ Vector® in Effects Maple

Pgs. 178-179



METALWORKS™ Vector® in Effects Light Cherry

Pgs. 178-179



METALWORKS™ Linear in Effects Light Cherry

Pgs. 184-187



### EFFECTS™ FINISHES FOR METAL CEILINGS



Effects™ Maple (FXMP)



Effects™ Oak (FXOK)



Effects™ Cherry (FXCH)



Effects™ Dark Cherry (FXDC)



Effects™ Walnut (FXWN)



Effects™ Walnut Espresso (FXWE)

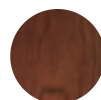
### PUREWOOD VENEER FINISHES FOR METAL CEILINGS – Interior Only



Maple (NMP)



Light Cherry (NLC)



Dark Cherry (NDC)



# WOODWORKS® Standard Ceilings

## Standard Finishes

### COMPOSITE WOOD PANEL VENEERS

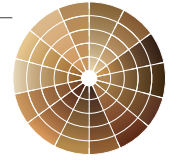
#### Natural Variations™ (Real Wood Veneers)



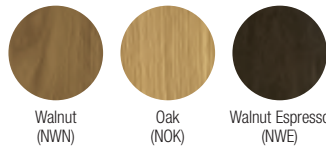
#### Constants™ (Real Wood Veneers)



#### Bamboo\* (Rapidly Renewable)



Custom Finishes Available



#### Images™ Finishes (High Quality Printed Finishes)



\* Veneer is rapidly renewable. Bamboo is a grass that requires 3-7 years for maturity

*Custom Perforations Available*

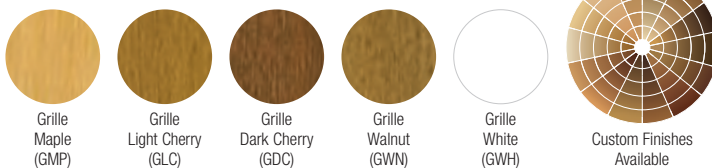
Custom veneers are available on the following standard WoodWorks® products:  
WoodWorks® Concealed  
WoodWorks® Tegular  
WoodWorks® Vector®  
WoodWorks® Channeled  
WoodWorks® Linear

NOTE: WoodWorks custom panels can be made from any standard WoodWorks veneer.

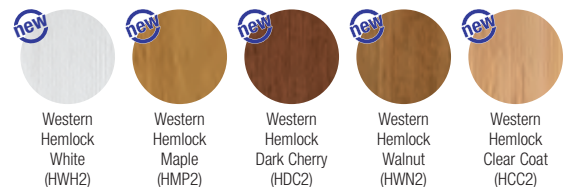
### COMPOSITE WOOD PANELS

	Concealed	Tegular	Vector®	Channeled	Linear Planks	Linear Panels
<b>Real Wood Veneers</b>						
<b>NATURAL VARIATIONS™</b>						
Beech	✓	✓	✓		✓	✓
Maple	✓	✓	✓	✓	✓	✓
Light Cherry	✓	✓	✓	✓	✓	✓
Dark Cherry	✓	✓	✓	✓	✓	✓
Walnut	✓	✓	✓		✓	✓
Oak	✓	✓	✓		✓	✓
Walnut Espresso	✓	✓	✓		✓	✓
<b>CONSTANTS™</b>						
Maple	✓	✓	✓		✓	✓
Cherry	✓	✓	✓		✓	✓
Walnut	✓	✓	✓		✓	✓
Redux Wheat	✓	✓	✓		✓	✓
<b>BAMBOO</b>						
Patina	✓	✓	✓		✓	✓
Native	✓	✓	✓		✓	✓
<b>Images™ Printed Finishes</b>						
Maple				✓		
Light Cherry				✓		
Dark Cherry				✓		

### SOLID WOOD PANEL FINISHES



### EXTERIOR/INTERIOR FINISHES (PARTIAL LIST)



### SOLID WOOD PANELS AND PLANKS

	Grille	Grille Tegular	Linear Planks	Open Cell
Grille Maple	✓	✓	✓	✓
Grille Light Cherry	✓	✓	✓	✓
Grille Dark Cherry	✓	✓	✓	✓
Grille Walnut	✓	✓	✓	✓
Grille White	✓	✓	✓	✓

# WOODWORKS® Ceilings

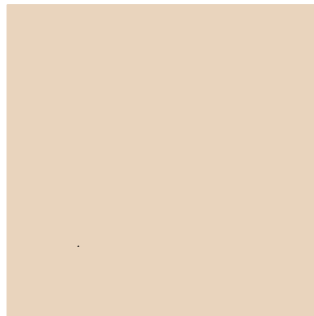
## Standard Perforations

Key for Perforation Names (Example – Rg 6006)

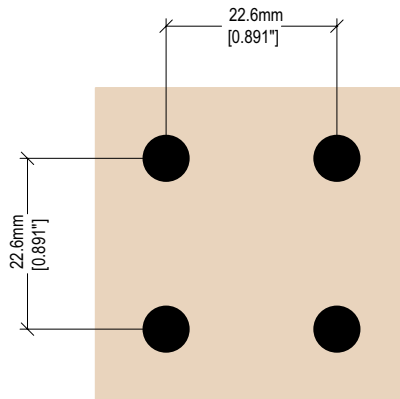
<b>R</b>	Hole shape (R = round / Q = square / L = oval / T = trapezoid)
<b>g</b>	Pattern (g = straight / d = diagonal / v = staggered)
<b>60</b>	Diameter of hole size in mm (Example – 6 mm)
<b>06</b>	% open area

### COMPOSITE WOOD PERFORATIONS – CONCEALED, TEGULAR & VECTOR®

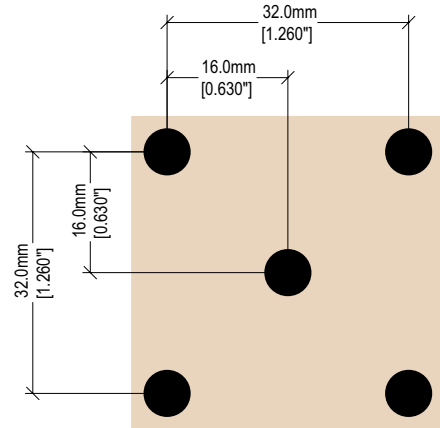
Standard Perforations Actual 1:1 scale shown unless otherwise noted.



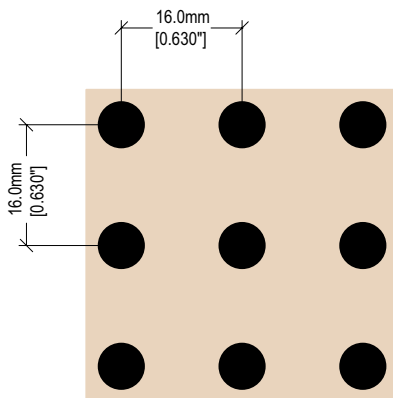
**W1** Type: Unperforated  
Hole Size: 0mm [0"]  
% Open Area: 0%



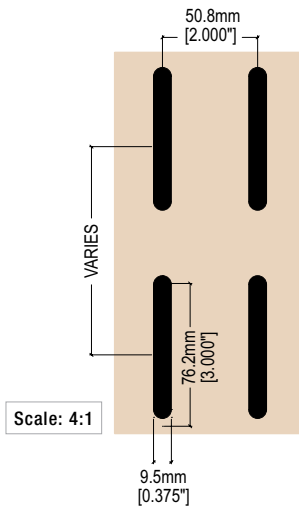
**W2 (Rg 6006)** Type: Round Straight  
Hole Size: 6.0mm [.236"]  
% Open Area: 6.0%  
NRC: 0.45\*



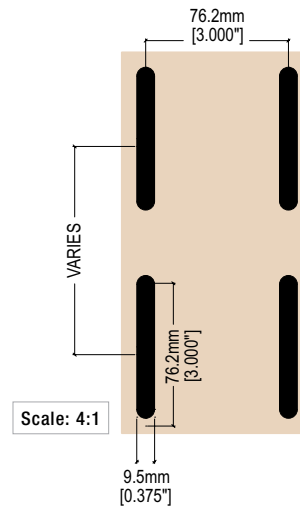
**W3 (Rd 6006)** Type: Round Diagonal  
Hole Size: 6.0mm [.236"]  
% Open Area: 6.0%  
NRC: 0.45\*



**W4 (Rg 6011)** Type: Round Straight  
Hole Size: 6.0mm [.236"]  
% Open Area: 11.0%  
NRC: 0.65\*



**W5 (Lg 9512)** Type: Oval Straight  
Hole Size: 76.2mm x 9.5mm  
[3.0" x .375"]  
% Open Area: Varies with panel size  
NRC: 0.55\*



**W6 (Lg 9508)** Type: Oval Straight  
Hole Size: 76.2mm x 9.5mm  
[3.0" x .375"]  
% Open Area: Varies with panel size  
NRC: 0.40\*

\* with 8200T10 fiberglass infill panel

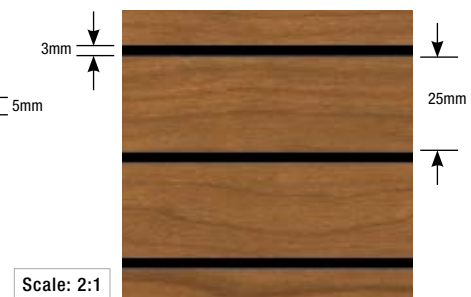
### COMPOSITE WOOD PERFORATIONS – CHanneled



**W7** Type: Channeled  
Groove Size: 13mm profile with  
3mm groove  
NRC: 0.75\*\*



**W8\*** Type: Channeled  
Groove Size: 5mm profile with  
3mm groove  
NRC: 0.80\*\*



**W9** Type: Channeled  
Groove Size: 25mm profile with  
3mm groove  
NRC: 0.50\*\*

# WOODWORKS® Upgrade Ceiling Options

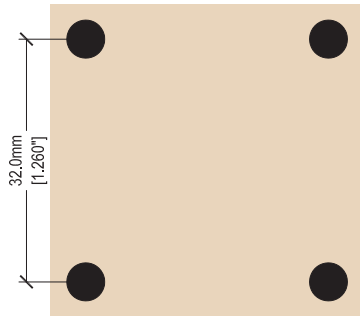
Take our standard WoodWorks® products in standard sizes, and make them distinctively yours by choosing from a variety of custom veneers (including FSC®-certified options) and/or perforations.

## CUSTOM VENEERS (PARTIAL LIST)

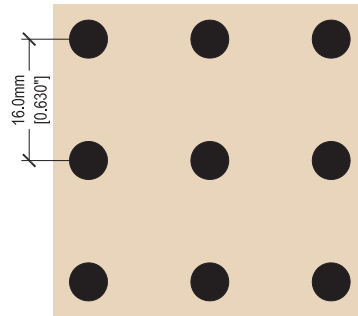
In addition to standard veneers, custom veneers and continuous upturn options are available on many WoodWorks® products. The following is a representation of some custom veneers used on recent projects. Veneer management is available to provide many other custom veneer options, and to coordinate with millwork or other interior finishes.



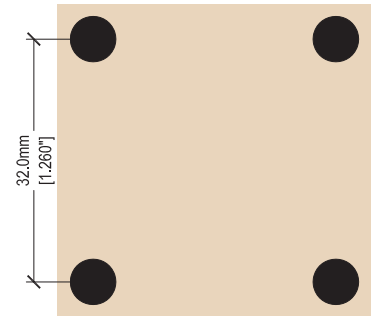
## CUSTOM PERFORATIONS Actual 1:1 scale shown



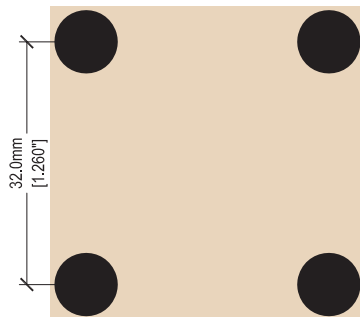
**Rg 5002** Type: Round Straight  
Hole Size: 5.0mm [.197"]  
% Open Area: 2.0%



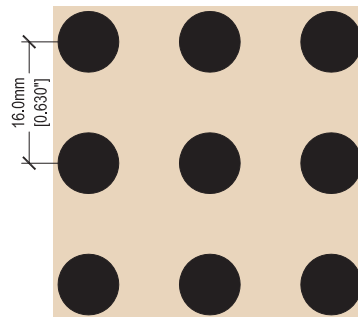
**Rg 5008** Type: Round Straight  
Hole Size: 5.0mm [.197"]  
% Open Area: 8.0%



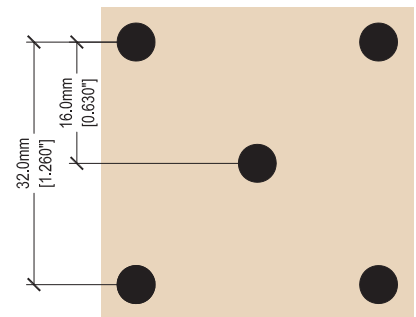
**Rg 6003** Type: Round Straight  
Hole Size: 6.0mm [.236"]  
% Open Area: 3.0%



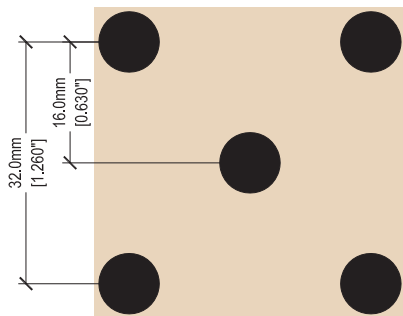
**Rg 8005** Type: Round Straight  
Hole Size: 8.0mm [.315"]  
% Open Area: 5.0%



**Rg 8020** Type: Round Straight  
Hole Size: 8.0mm [.315"]  
% Open Area: 20.0%

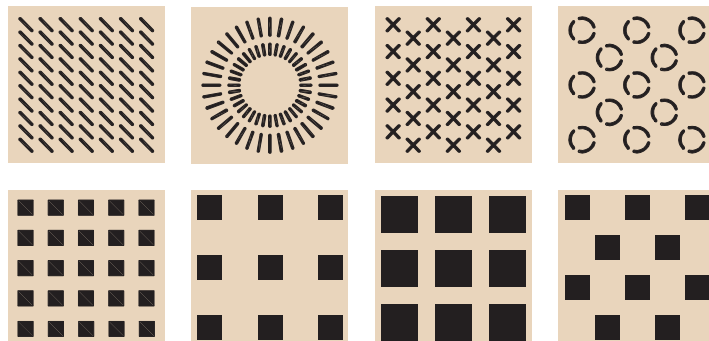


**Rd 5004** Type: Round Diagonal  
Hole Size: 5.0mm [.197"]  
% Open Area: 4.0%



**Rd 8010** Type: Round Diagonal  
Hole Size: 8.0mm [.315"]  
% Open Area: 10.0%

## CUSTOM PERFORATION CAPABILITIES Examples represent visual on a 24" x 24" panel

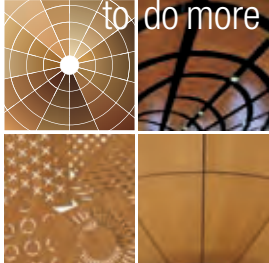


NOTE: Perforations not recommended for WoodWorks Custom Curved panels



WoodWorks® Tegular panels with W2 perforation in Natural Variations™ Maple with Suprafine® XL® 9/16" exposed tee suspension system (Pgs. 466-467)


plus capabilities  
to do more



armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

Now get Total Acoustics® performance with WoodWorks® Tegular perforated panels – excellent noise reduction and sound blocking in one system.

**KEY SELECTION ATTRIBUTES**

-  Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics performance
- Create upturns for continuous visuals and clouds with WoodWorks trim (see pages 252-253 for trim options)
- Coordinating WoodWorks walls available (see pages 520-521 for wall offering)
- 18" x 18" Tegular infill panels now available for Metaphors® Coffers; for details, visit [armstrongceilings.com/metaphors](http://armstrongceilings.com/metaphors)
- Shorter lead times and lower cost than custom millwork

**VENEERS** Due to printing limitations, shade may vary from actual product.

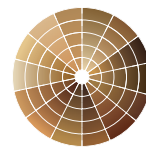
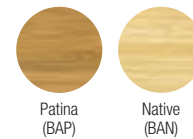
**Natural Variations™**  
(Real Wood Veneers)



**Constants™**  
(Real Wood Veneers)



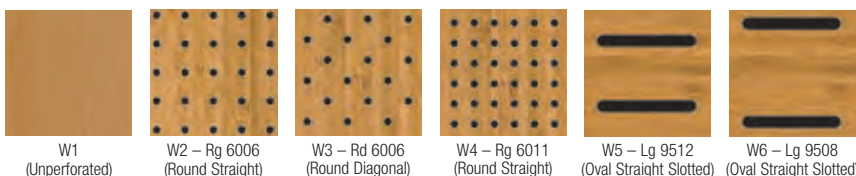
**Bamboo\***



Custom Veneers Available

\* Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

**PERFORATION OPTIONS** (Actual 1:6 scale shown)



Custom Perforations Available

NOTE: Slotted perforations run parallel to the length of the panel and borders vary with panel size.

# WOODWORKS® Tegular



USDA  
CERTIFIED  
BIOBASED  
PRODUCT  
PRODUCT 100%





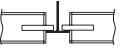








The mark of  
responsible forestry

UP TO **75%** RECYCLED CONTENT

For LEED contribution contact TechLine



## VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions Nominal W x L x H (Inches)		Perforations	Fire Rating
		Custom Sizes Available			
<b>WOODWORKS® Tegular</b>					
9/16" Square Tegular 	5404_ _ _ _ _	24 x 24 x 3/4"		W1, W2, W3, W4, W5, W6	Class A
<b>FSC®-certified WOODWORKS Tegular</b>					
9/16" Square Tegular 	5406_ _ _ _ _	24 x 24 x 3/4"		W1, W2, W3, W4, W5, W6	Class A
	6484_ _ _ _ _	12 x 48 x 3/4"			
	6485_ _ _ _ _	12 x 72 x 3/4"			
	6486_ _ _ _ _ **	24 x 48 x 3/4"			
	6487_ _ _ _ _ **	24 x 72 x 3/4"			
<b>TechZone® Panels</b>					
	6510_ _ _ _ _	24 x 42 x 3/4"		W1, W2, W3, W4, W5, W6	Class A
	6511_ _ _ _ _	30 x 30 x 3/4"			
	6512_ _ _ _ _	27 x 30 x 3/4"			

## PERFORMANCE

Fire Rating
Class A
Class A
Class A
Class A
Class A
Class A







LOCATION DEPENDENT

## ACOUSTICAL INFORMATION

Dots represent high level of performance.

WITH INFILL PANEL

Performance determined by perforation size

Perforation	Infill Panel Item Number	NRC + CAC =		Total Acoustics <sup>1</sup>
		NRC	CAC	
W1  Unperforated		N/A	38	-
W2  Round Straight	8200T10	0.40	28	-
	5479	0.40	28	-
	5823	0.40	28	-
	1713BL	0.65	42	GOOD
	2820BK	0.70	37	BETTER
W3  Round Diagonal	8200T10	0.40	28	-
	5479	0.40	28	-
	5823	0.40	28	-
	1713BL	0.65	42	GOOD
	2820BK	0.70	37	BETTER
W4  Round Straight	8200T10	0.40	28	-
	5479	0.40	28	-
	5823	0.40	28	-
	1713BL	0.70	42	BETTER
	2820BK	0.70	37	BETTER
W5  Oval Straight Slotted	8200T10	0.40	28	-
	5479	0.40	28	-
	5823	0.40	28	-
	1713BL	0.70	42	BETTER
	2820BK	0.80	37	BEST
W6  Oval Straight Slotted	8200T10	0.40	28	-
	5479	0.40	28	-
	5823	0.40	28	-
	1713BL	0.65	42	GOOD
	2820BK	0.70	37	BETTER

◆ When specifying or ordering, include the appropriate 2-digit perforation and 3-letter color suffixes. For veneers, sizes, and perforation patterns available as special order, call TechLine at 1 877 276-7876.  
 \*\* 24" x 48" and 24" x 72" Tegular panels are available standard with fleece attached. Fleece on other panels must be specified.  
 NOTE: Items 6485 and 6487 (12" x 72" and 24" x 72" series) include suspension system stabilizer hooks. Items 6510, 6511, and 6512 are available in limited standard finishes and perforation options. See TechZone® ceiling systems (pages 400-407) for more details.

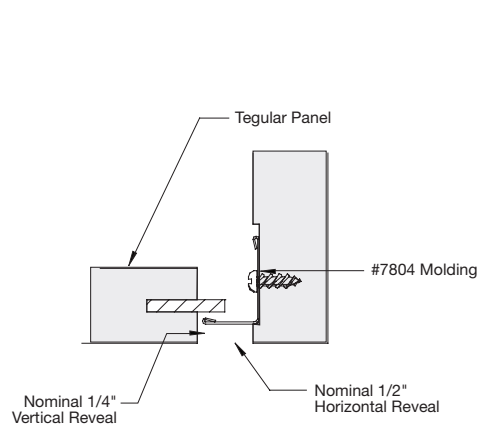
<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+)  
**BETTER** (NRC 0.70-0.75; CAC 35+)  
**BEST** (NRC 0.80+; CAC 35+)  
 For perforation % open area, refer to Pgs. 153-154.  
 For infill panel information, refer to Pg. 184.



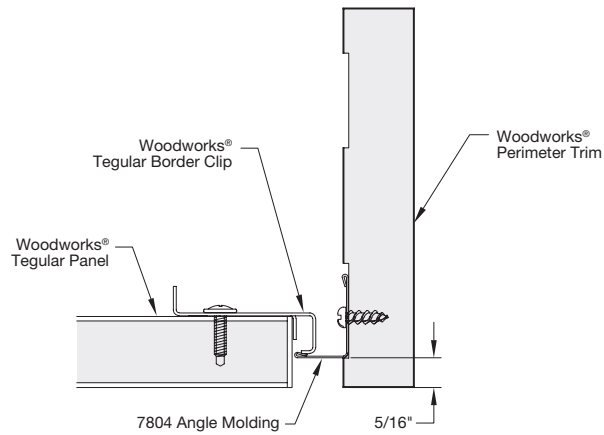
# WOODWORKS®

## Tegular

### WOODWORKS® TRIM INSTALLATION

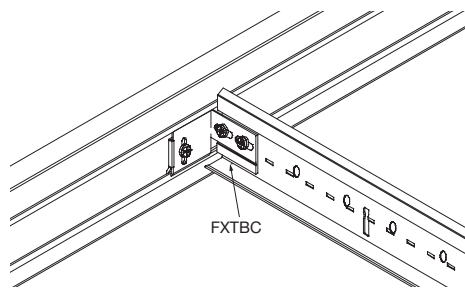


Trim with Tegular Panel

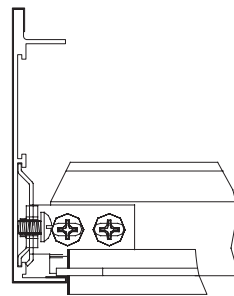


Trim with Cut Tegular Panel

### WOODWORKS TRIM (ALUMINUM SUBSTRATE) INSTALLATION



FXTBC Detail



Trim Assembly for Tegular Panel

### TOTAL ACOUSTICS® PANEL INSTALLATION



WoodWorks® Tegular ceiling panel with Calla® 2820 acoustic infill panel for Total Acoustics® performance



WoodWorks® Tegular ceiling panel with acoustic panel installed for Total Acoustics® performance



# WOODWORKS®

## Tegular

### ACCESSORIES

Item No. ◆	Description	Dimensions (Inches) Nominal W x L x H	Color	Pcs/ Crtn
5415W1_ _ _	4" WoodWorks® Trim (with FSC®-certified wood substrate)	4 x 96 x 3/4"	See Colors on Pg. 252	6
5419W1_ _ _	6" WoodWorks Trim (with FSC-certified wood substrate)	6 x 96 x 3/4"	See Colors on Pg. 252	4
5659W1_ _ _	4" WoodWorks Trim (with aluminum substrate)	4" x 120"	See Colors on Pg. 252	6
5660W1_ _ _	6" WoodWorks Trim (with aluminum substrate)	6" x 120"	See Colors on Pg. 252	6
7804BL	Angle Molding (recommended with wood trims)	7/8 x 144 x 9/16"	Black	2
FXTBC	T-Bar Connector Clip	–	–	10
FXVTBC	Vector® T-Bar Connector Clip	–	–	10
FXSPLICE	Splice Plate with Setscrews	–	–	10
FX4SPLICE	Splice Plate with Setscrews	–	–	10
6408_ _ _	3/4" Edge Banding	3/4" x 300"	See Colors on Pg. 252	–
7891	12-Gauge Hanger Wire	144" Length	–	–
92715A620	Self-tapping Screws	#2 x 3/4" Length	Black	25
1713BL	Fine Fissured™ Lay-in Panel	24 x 24 x 3/4"	Tech Black	14
2820BK	Calla® Lay-in Panel	24 x 24 x 1"	Black	10
5479	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Beige Matte	12
5823	BioAcoustic Infill Panel	24 x 24 x 5/8"	Black Matte	12
8200T10	Fiberglass Infill Panel	24 x 24 x 1"	Black Gloss	12
6091	Safety Cable	–	–	50

◆ When specifying or ordering, include the color suffix that coordinates with your WoodWorks ceiling: (e.g., 5415W1 N M P)



WoodWorks® Vector® with 4" WoodWorks Trim (wood substrate) in Bamboo Patina



Axiom® Trim also available in multiple colors and profile sizes. For details, visit [armstrongceilings.com/axiom](http://armstrongceilings.com/axiom)

### SUSPENSION SYSTEMS

9/16"  
Tegular



Silhouette®



Suprafine®



Interlude® XL® HRC

Suprafine® suspension system is available in many standard colors. All other suspension systems are available in standard White only. Other colors available as special order.

### PHYSICAL DATA

#### Material

Fire-retardant particle board with face-cut veneers; FSC®-certified fire-retardant particle board with face-cut veneers (RA-COC-003601). For more information about FSC®-certified fire-retardant products, or to view our FSC®-certification letter, visit [armstrongceilings.com/woodworksfsf](http://armstrongceilings.com/woodworksfsf)

#### Surface Finish

Clear or tinted semigloss coating

#### Fire Performance

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

#### Acoustical Performance

CAC testing conducted using Silhouette® suspension system.

#### ASTM E1264 Classification

Composite – Fire Class A

#### Primary (Embodied) Energy

See all LCA information on our EPDs.

#### Application Considerations

Variation among panels may occur due to the natural characteristics of the wood and grain.

It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

#### Design Considerations

Different panels should not be installed together. Perforated border on 24" x 72" panels are different than other panel sizes.

#### Specification Consideration

Attention: For FSC-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

#### Installation Consideration for Tegular Panels

Due to panel weight, 24" x 48" and 24" x 72" panels require that the suspension system be attached to the back with safety cables attached. 12" x 72" and 24" x 72" panels require the use of suspension system stabilizer clips (which are included in the cartons).

#### Seismic Restraint

WoodWorks Tegular solid wood panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

#### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

#### Weight; Square Feet

Panels – 2.75 lbs/SF

TechLine / 1 877 276-7876  
[armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)  
(search: woodworks tegular)  
BPCS-5103-319

LEED® is a registered trademark of the U.S. Green Building Council®  
Rainforest Alliance Certified™ is a trademark of Rainforest Alliance.  
FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C.,  
license code FSC-C007626. All other trademarks  
used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

227

# WOODWORKS®

## Vector®



WoodWorks® Vector® panels with slotted perforation on Prelude® XL® 15/16" suspension system (Pgs. 458-459)

plus capabilities  
to do more

armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

Fully accessible wood panels are available in multiple options for acoustical and aesthetic needs.

### KEY SELECTION ATTRIBUTES

- Vector® edge detail provides safe and secure downward accessibility without tools and narrow reveal visual (1/4")
- Wide choice of standard and custom perforations
- Create upturns for continuous visuals and clouds with WoodWorks trim (see page 252 for trim options)
- Coordinating WoodWorks® walls available (see pages 520-521 for wall offering)
- 18" x 18" Tegular infill panels now available for Metaphors® Coffers; for details, visit [armstrongceilings.com/metaphors](http://armstrongceilings.com/metaphors)
- Acoustical fleece backing option available for improved sound absorption
- Installation with minimum plenum clearance (Vector)
- Shorter lead times and lower cost than custom millwork

### VENEERS Due to printing limitations, shade may vary from actual product.

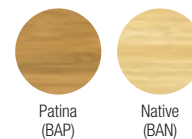
#### Natural Variations™ (Real Wood Veneers)



#### Constants™ (Real Wood Veneers)

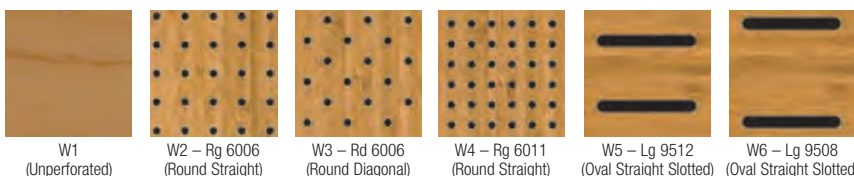


#### Bamboo\*



\* Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

### PERFORATION OPTIONS (Actual 1:6 scale shown)



Custom Perforations Available

NOTE: Slotted perforations run parallel to the length of the panel and borders vary with panel size.



# WOODWORKS®

## Vector®

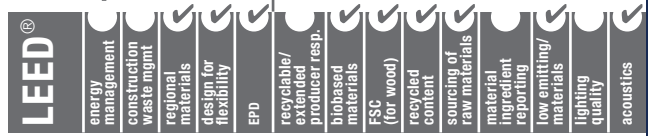


USDA  
CERTIFIED  
BIOBASED  
PRODUCT  
PRODUCT 100%



UP TO 75% RECYCLED CONTENT

For LEED contribution contact TechLine



### VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Perforations
<b>WOODWORKS® Vector®</b>			
15/16" Vector – 1/4" Reveal 	5401_ _ _ _ _	24 x 24 x 3/4" □	W1, W2, W3, W4, W5, W6
<b>FSC®-certified WOODWORKS® Vector®</b>			
15/16" Vector – 1/4" Reveal 	5403_ _ _ _ _	24 x 24 x 3/4" □	W1, W2, W3, W4, W5, W6
	6480_ _ _ _ _	12 x 48 x 3/4" □	
	6482_ _ _ _ _	24 x 48 x 3/4" □	

◆ When specifying or ordering, include the appropriate 2-digit perforation and 3-letter color suffixes. For veneers, sizes, and perforation patterns available as special order, call TechLine at 1 877 276-7876. NOTE: Vector® panels do not have fleece backer. Can be specified as a premium option.

### PERFORMANCE

Fire Rating
Class A
Class A

### ACOUSTICAL INFORMATION

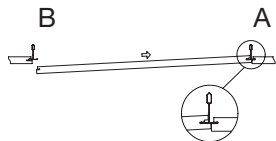
Dots represent high level of performance.

Perforation	NRC*	CAC
W1 Unperforated 	N/A	38
W2 Round Straight 	0.40	28
W3 Round Diagonal 	0.40	28
W4 Round Straight 	0.65	28
W5 Oval Straight Slotted 	0.55	28
W6 Oval Straight Slotted 	0.40	28

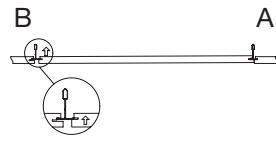
\* Maximum NRC achieved with acoustical infill (item 8200T10 or 5479, unless noted otherwise). For additional infill options, refer to Pg. 253.

EXAMPLE: **5401 W2 NLC**  
 Panel Dimension/Type: 24" x 24" FSC-certified  
 Perforation: W2 Round Straight Rg 6006  
 Finish: Natural Variations Light Cherry

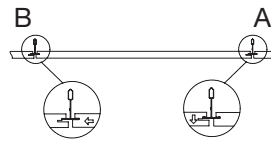
### VECTOR PANEL INSTALLATION DETAILS



**Step 1:** Fully insert the deepest kerf of edge "A", the access kerf, onto the exposed grid flange.

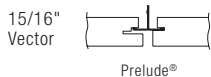


**Step 2:** Raise the "B" edge of the panel, the registration kerf, into the grid opening until the kerf lines up with the grid flange.



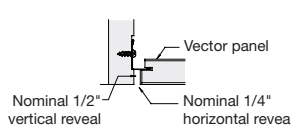
**Step 3:** Slide the panel so that the registration kerf on edge "B" engages the grid flange. Ensure that the access kerf on edge "A" drops down into the correct position.

### SUSPENSION SYSTEMS

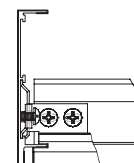


Prelude suspension system is available in many standard colors. Other colors available as special order.

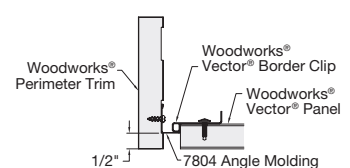
### WOODWORKS TRIM INSTALLATION



**Wood Substrate Trim with Vector Panel**



**Aluminum Substrate Trim Assembly for Vector Panel**



**Trim with Cut Vector Panel**

### PHYSICAL DATA

**Material**  
Fire-retardant particle board with face-cut veneers; FSC®-certified fire-retardant particle board with face-cut veneers (RA-COC-003601). For more information about FSC®-certified fire-retardant products, or to view our FSC®-certification letter, visit [armstrongceilings.com/woodworksfscc](http://armstrongceilings.com/woodworksfscc)

**Surface Finish**  
Clear or tinted semigloss coating

**Fire Performance**  
ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.  
CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

**ASTM E1264 Classification**  
Composite – Fire Class A  
**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**Application Considerations**  
Variation among panels may occur due to the natural characteristics of the wood and grain. It is very important that WoodWorks panels be climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

**Design Considerations**  
Different panel sizes should not be installed together. Perforated border on 24" x 72" panels are different than other panel sizes.  
Vector safety clips included with panels may be visible through panel perforations.

**Specification Consideration**  
Attention: For FSC-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

**Seismic Restraint**  
WoodWorks Vector solid wood panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet**  
Panels – 2.75 lbs/SF

TechLine / 1 877 276-7876  
[armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)  
(search: woodworks vector)

BPCS-5416-319

LEED® is a registered trademark of the U.S. Green Building Council®  
Rainforest Alliance Certified™ is a trademark of Rainforest Alliance.  
FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C., license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America



# WOODWORKS® Channeled Tegular



plus capabilities to do more

armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

Now get Total Acoustics® performance with WoodWorks® Channeled Tegular perforated panels – excellent noise reduction and sound blocking in one system.

## KEY SELECTION ATTRIBUTES

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics performance
- Real wood veneers or Images™ high-quality printed visuals
- Create a continuous ceiling, cloud, or ceiling-to-wall transition

- Standard acoustical fleece provides sound absorption
- Shorter lead times and lower costs than custom millwork
- Class A fire performance

### Natural Variations™ Finishes

- FSC® chain of custody (CoC) certified WoodWorks products represent responsible production and consumption practices from the forest to the consumer
- 100% Biobased content
- BioAcoustic™ infill panels can enhance acoustics and contribute to LEED® credits

### Images™ Finishes

- Larger Tegular panel sizes – 24" x 48", 12" x 48", and 30" x 30" for even more design flexibility
- BioAcoustic™ infill panels can enhance acoustics and contribute to LEED® credits

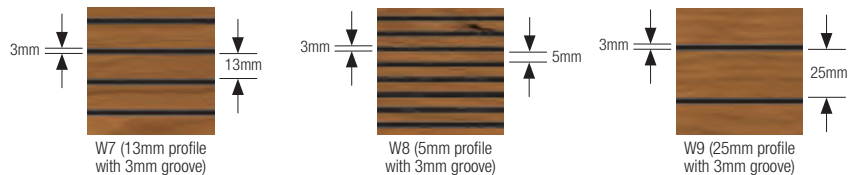
## VENEERS Due to printing limitations, shade may vary from actual product.

### Natural Variations (Real Wood Veneers)



## VENEER PERFORATION OPTIONS

(Actual 1:2 scale shown)



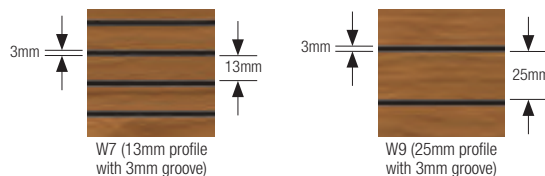
## IMAGES™ FINISHES

(High-Quality Printed Finishes)



## IMAGES PERFORATION OPTIONS

(Actual 1:2 scale shown)



# WOODWORKS® Channeled Tegular



UP TO 75% RECYCLED CONTENT

For LEED contribution contact TechLine

LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	FSC (for wood)	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	----------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

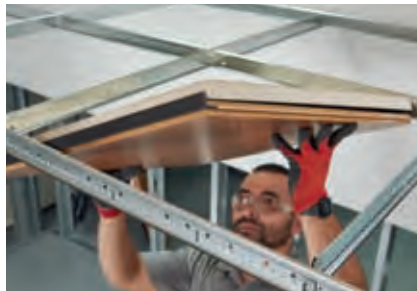
## VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Perforations	Fire Rating
<b>FSC®-certified WOODWORKS® Channeled Tegular Veneers Perforated (with Acoustical Fleece)</b>				
	<b>5904</b> _____	24 x 24 x 3/4" □	W7, W8, W9	Class A
<b>FSC®-certified WOODWORKS® Channeled Tegular Images™ Finishes Perforated (with Acoustical Fleece)</b>				
	<b>6683</b> _____	24 x 24 x 11/16" □	W7, W9	Class A
	<b>6681</b> _____	12 x 48 x 11/16" □		
	<b>6685</b> _____	24 x 48 x 11/16" □		
	<b>6687</b> _____	30 x 30 x 11/16" □		

◆ When specifying or ordering, include the appropriate 2-letter perforation suffix and the color suffix (e.g., 6683W Z P M E.)

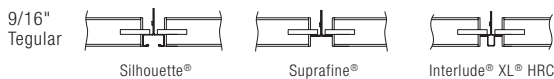
## ACOUSTICAL INFILL PANELS (Details on pg. 253)

Item No.	Description
<b>1713</b>	School Zone® Fine Fissured™ Square Lay-in Acoustic Panel
<b>2820</b>	Calla® Square Lay-in Acoustic Panel
<b>5823</b>	BioAcoustic Infill Panel
<b>8200T10</b>	Fiberglass Infill Panel



WoodWorks® Channeled ceiling panel with Calla® 2820 acoustic infill panel for Total Acoustics® performance

## SUSPENSION SYSTEMS



Suprafine suspension system is available in many standard colors. All other suspension systems are available in standard White only. Other colors available as special order.

## PHYSICAL DATA

**Material**  
FSC®-certified fire-retardant medium-density fiberboard with face-cut veneers (RA-COC-003601). For more information about FSC®-certified products, or to view our FSC®-certification letter, visit [armstrongceilings.com/woodworks/fsc](http://armstrongceilings.com/woodworks/fsc)

**Surface Finish**  
Clear or tinted semigloss coating

**Fire Performance**  
ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

**Acoustical Performance**  
CAC testing conducted using Silhouette® suspension system.

**ASTM E1264 Classification**  
Composite – Fire Class A

**Application Considerations**  
Variation among panels may occur due to the natural characteristics of the wood and grain. It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

LOCATION DEPENDENT

## ACOUSTICAL INFORMATION

Dots represent high level of performance.

WITH INFILL PANEL

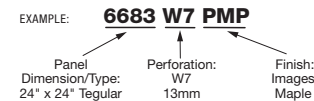
Performance determined by perforation size

Perforation	Infill Panel Item Number	NRC	+	CAC	=	Total Acoustics <sup>1</sup>
<b>W7</b> 	No infill	0.75		N/A	–	
	8200T10	0.80		N/A	–	
	5823	0.80		N/A	–	
	1713	0.70	•	42	•	<b>BETTER</b>
	2820	0.80	•	40	•	<b>BEST</b>
<b>W8</b> 	No infill	0.80		N/A	–	
	8200T10	0.80		N/A	–	
	5823	0.80		N/A	–	
	1713	0.70	•	42	•	<b>BETTER</b>
	2820	0.80	•	40	•	<b>BEST</b>
<b>W9</b> 	No infill	0.50		N/A	–	
	8200T10	0.80		N/A	–	
	5823	0.80		N/A	–	
	1713	0.65	•	42	•	<b>GOOD</b>
	2820	0.70	•	40	•	<b>BETTER</b>

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

**GOOD** (NRC 0.60-0.65; CAC 35+)  
**BETTER** (NRC 0.70-0.75; CAC 35+)  
**BEST** (NRC 0.80+; CAC 35+)

For infill panel information, refer to Pg. 253.



## ACCESSORIES

Natural Variations™ and Images™ finishes are designed to coordinate with each other. Trim and infill panels are available. See Pgs. 252-253 in this catalog.

## Specification Consideration

Attention: For FSC certified wood products to maintain their CoC certification, products must be sold to a CoC certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

## Seismic Restraint

WoodWorks Channeled wood panels have been engineered, tested, and approved in all seismic areas when installed per Armstrong Ceilings installation instructions.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Panel Weight**  
2.2 lbs/SF (Bulk packaged)

TechLine / 1 877 276 7876  
[armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)  
(search: woodworks channeled tegular)

BPCS-5104-319

LEED® is a registered trademark of the U.S. Green Building Council®  
Rainforest Alliance Certified™ is a trademark of Rainforest Alliance.  
FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C.,  
license code FSC-C007626. All other trademarks used herein  
are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America



# WOODWORKS® Channeled Vector®



plus capabilities  
to do more

armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

These FSC®-certified ceiling panels are available in rich, real wood veneers or economical Wood Looks visuals.

## KEY SELECTION ATTRIBUTES

- Real wood veneers or Images™ high-quality printed visuals
- Create a continuous ceiling, cloud, or ceiling-to-wall transition
- Acoustical backing improves sound quality
- Shorter lead times and lower costs than custom millwork
- Class A fire performance

### Natural Variations™ Finishes

- FSC chain of custody (CoC) certified WoodWorks® products represent responsible production and consumption practices from the forest to the consumer
- 100% Biobased content
- BioAcoustic™ infill panels can enhance acoustics and contribute to LEED® credits

### Images™ Finishes

- Larger Vector panel sizes – 24" x 48", 12" x 48", and 30" x 30" for even more design flexibility
- BioAcoustic™ infill panels can enhance acoustics and contribute to LEED® credits

## VENEERS Due to printing limitations, shade may vary from actual product.

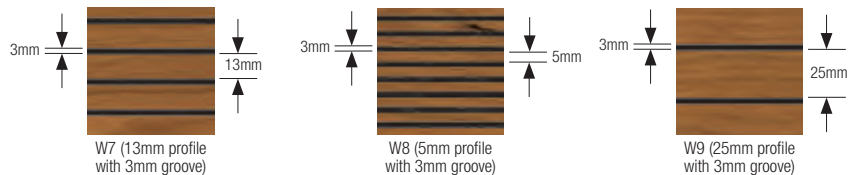
### Natural Variations (Real Wood Veneers)



Custom Veneers Available

## VENEER PERFORATION OPTIONS

(Actual 1:2 scale shown)



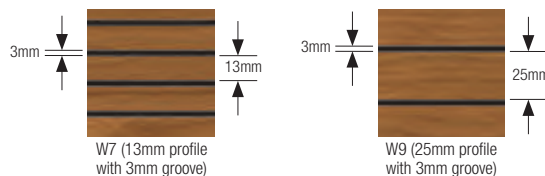
## IMAGES™ FINISHES

(High-Quality Printed Finishes)



## IMAGES PERFORATION OPTIONS

(Actual 1:2 scale shown)



# WOODWORKS® Channeled Vector®



UP TO 75% RECYCLED CONTENT

For LEED contribution contact TechLine



## VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Perforations
<b>FSC®-certified WOODWORKS Channeled Vector® Veneers Perforated (with Acoustical Fleece)</b>			
1/4" Reveal with 15/16" Vector 	<b>5903</b> _ _ _ _ _	24 x 24 x 3/4" □	W7, W8, W9
<b>FSC®-certified WOODWORKS Channeled Vector Images™ Finishes Perforated (with Acoustical Fleece)</b>			
1/4" Reveal with 15/16" Vector 	<b>6682</b> _ _ _ _ _	24 x 24 x 11/16" □	W7, W9
	<b>6680</b> _ _ _ _ _	12 x 48 x 11/16" □	
	<b>6684</b> _ _ _ _ _	24 x 48 x 11/16" □	
	<b>6686</b> _ _ _ _ _	30 x 30 x 11/16" □	

◆ When specifying or ordering, include the appropriate 2-letter perforation suffix and the color suffix (e.g., 6682W Z P M E.)

## PERFORMANCE

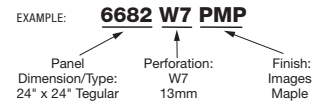
Fire Rating
Class A

## ACOUSTICAL INFORMATION

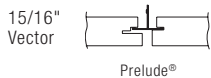
Dots represent high level of performance.

Perforation	NRC panels
<b>W7</b>  13mm Profile Groove	0.75 • 0.80† •
<b>W8</b>  5mm Profile Groove	0.80 • 0.90† •
<b>W9</b>  25mm Profile Groove	0.50 0.60†

† NRC when installed with acoustical infill (item 8200T10 or 5479)



## SUSPENSION SYSTEMS



Prelude suspension system is available in many standard colors. All other suspension systems are available in standard White only. Other colors available as special order.

## ACCESSORIES

Natural Variations™ and Images™ finishes are designed to coordinate with each other. Trim and infill panels are available. See Pgs. 252-253 in this catalog or visit [armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)

## PHYSICAL DATA

**Material**  
FSC®-certified fire-retardant medium-density fiberboard with face-cut veneers (RA-COC-003601). For more information about FSC®-certified products, or to view our FSC®-certification letter, visit [armstrongceilings.com/woodworksfc](http://armstrongceilings.com/woodworksfc)

**Surface Finish**  
Clear or tinted semigloss coating

**Fire Performance**  
ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

**ASTM E1264 Classification**  
Composite – Fire Class A

**Application Considerations**  
Variation among panels may occur due to the natural characteristics of the wood and grain.

It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

**Specification Consideration**  
Attention: For FSC certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

### Seismic Restraint

WoodWorks Channeled wood panels have been engineered, tested, and approved in all seismic areas when installed per Armstrong Ceilings installation instructions.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Panel Weight**  
2.2 lbs/SF (Bulk packaged)

TechLine / 1 877 276 7876  
[armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)  
(search: woodworks channeled vector)

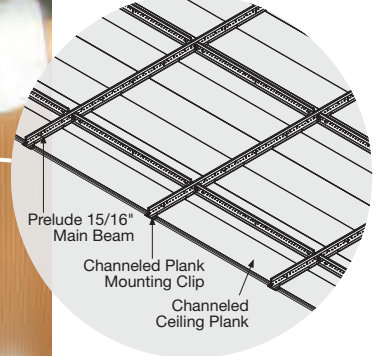
BPCS-5417-319

LEED® is a registered trademark of the U.S. Green Building Council®  
Rainforest Alliance Certified™ is a trademark of Rainforest Alliance.  
FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C.,  
license code FSC-C007626. All other trademarks used herein  
are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America

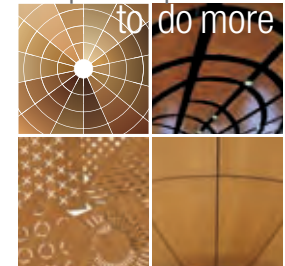


# WOODWORKS® Channeled Planks

CAD/Revit® drawings at:  
armstrongceilings.com



plus capabilities  
to do more



armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

WoodWorks® Channeled plank with W9 perforation in Natural Variations™ Maple

These FSC®-certified ceiling panels are available in rich, real wood veneers or economical Wood Looks visuals.

## KEY SELECTION ATTRIBUTES

- Create a continuous ceiling or cloud
- Create a ceiling-to-wall transition
- Real Wood Veneers
- Standard acoustical fleece improves sound absorption
- Shorter lead times and lower costs than custom millwork
- Class A fire performance

### Natural Variations™ Finishes

- FSC® chain of custody (CoC) certified WoodWorks® products represent responsible production and consumption practices from the forest to the consumer
- 100% Biobased content
- BioAcoustic™ infill panels can enhance acoustics and contribute to LEED® credits

### Images™ Finishes

- Larger Tegular and Vector® panel sizes – 24" x 48", 12" x 48", and 30" x 30" for even more design flexibility
- BioAcoustic™ infill panels can enhance acoustics and contribute to LEED® credits

**VENEERS** Due to printing limitations, shade may vary from actual product.

Natural Variations™ (Real Wood Veneers)



Custom Veneers Available

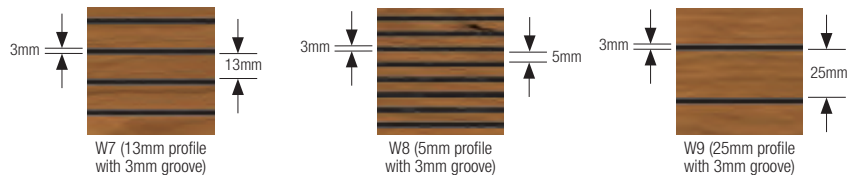
## IMAGES™ FINISHES

(High Quality Printed Finishes)



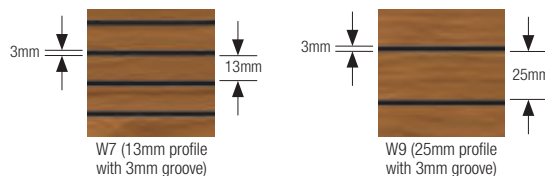
## VENEER PERFORATION OPTIONS

(Actual 1:2 scale shown)



## IMAGES PERFORATION OPTIONS

(Actual 1:2 scale shown)



# WOODWORKS® Channeled Planks



USDA  
CERTIFIED  
BIOBASED  
PRODUCT  
PRODUCT 100%



UP TO 75% RECYCLED CONTENT

For LEED contribution contact TechLine



## VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Perforations	Fire Rating
<b>FSC®-certified WOODWORKS® Channeled Plank Veneers Perforated (with Acoustical Fleece)</b>				
Tongue-and-Groove 	<b>5900C</b> _____	5.553 x 96 x 3/4"	W7, W8, W9*	Class A
	<b>5901C</b> _____	5.553 x 120 x 3/4"	W7, W8, W9*	Class A
<b>FSC®-certified WOODWORKS® Channeled Plank with Images™ Finishes Perforated (with Acoustical Fleece)</b>				
Tongue-and-Groove 	<b>6688C</b> _____	5.553 x 96 x 11/16"	W7, W9*	Class A
	<b>6689C</b> _____	5.553 x 120 x 11/16"	W7, W9*	Class A

◆ When specifying or ordering, include the appropriate 5-letter perforation and color suffix (e.g., 6688CW Z N M P.)  
\* Size width for panels with W9 perforation is 5.393".

## PERFORMANCE

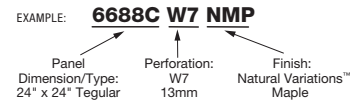
Fire Rating
Class A
Class A
Class A
Class A
Class A

## ACOUSTICAL INFORMATION

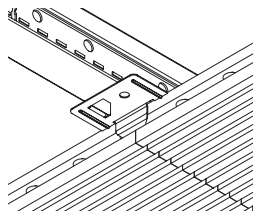
Dots represent high level of performance.

Perforation	NRC planks	D20 Mount
	NRC	NRC
<b>W7</b> 	0.75† • 0.80†† •	0.50
<b>W8</b> 	0.80† • 0.80†† •	0.55
<b>W9</b> 	0.50† 0.65††	0.50

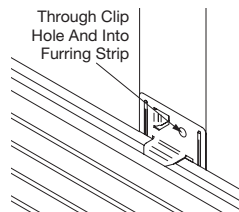
† No infill  
†† NRC when installed with acoustical infill (item 8200T10 or 5479)



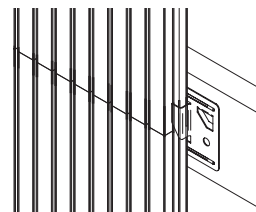
## INSTALLATION DETAILS



Ceiling Configuration with Clip 5389



Ceiling Configuration with Clip 5389 using Wall Furring Strips



Wall Configuration with Clip 5389

## SUSPENSION SYSTEMS



## CEILING PLANK CLIPS

Item Number	Description	Dimensions	Color	Pcs./Ctn.
<b>5389</b>	Channeled Panel Clip	N/A	N/A	250

## ACCESSORIES

Natural Variations™ and Images™ finishes are designed to coordinate with each other. Trim and infill panels are available. See Pgs. 252-253 in this catalog or visit [armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)

## PHYSICAL DATA

**Material**  
FSC®-certified fire-retardant medium-density fiberboard with face-cut veneers (RA-COC-003601). For more information about FSC®-certified products, or to view our FSC®-certification letter, visit [armstrongceilings.com/woodworksfs](http://armstrongceilings.com/woodworksfs)

**Surface Finish**  
Clear or tinted semigloss coating

**Fire Performance**  
ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

**ASTM E1264 Classification**  
Composite – Fire Class A

**Application Considerations**  
Variation among panels may occur due to the natural characteristics of the wood and grain.

It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

**Specification Consideration**  
Attention: For FSC certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

**Seismic Restraint**  
WoodWorks Channeled wood planks have been engineered, tested, and approved in all seismic areas when installed per Armstrong Ceilings installation instructions.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Panel Weight**  
2.2 lbs/SF (Bulk packaged)

TechLine / 1 877 276 7876  
[armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)  
(search: woodworks channeled plank)

BCPS-5124-319

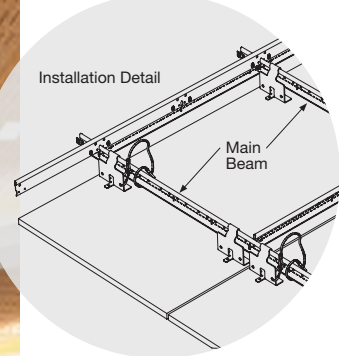
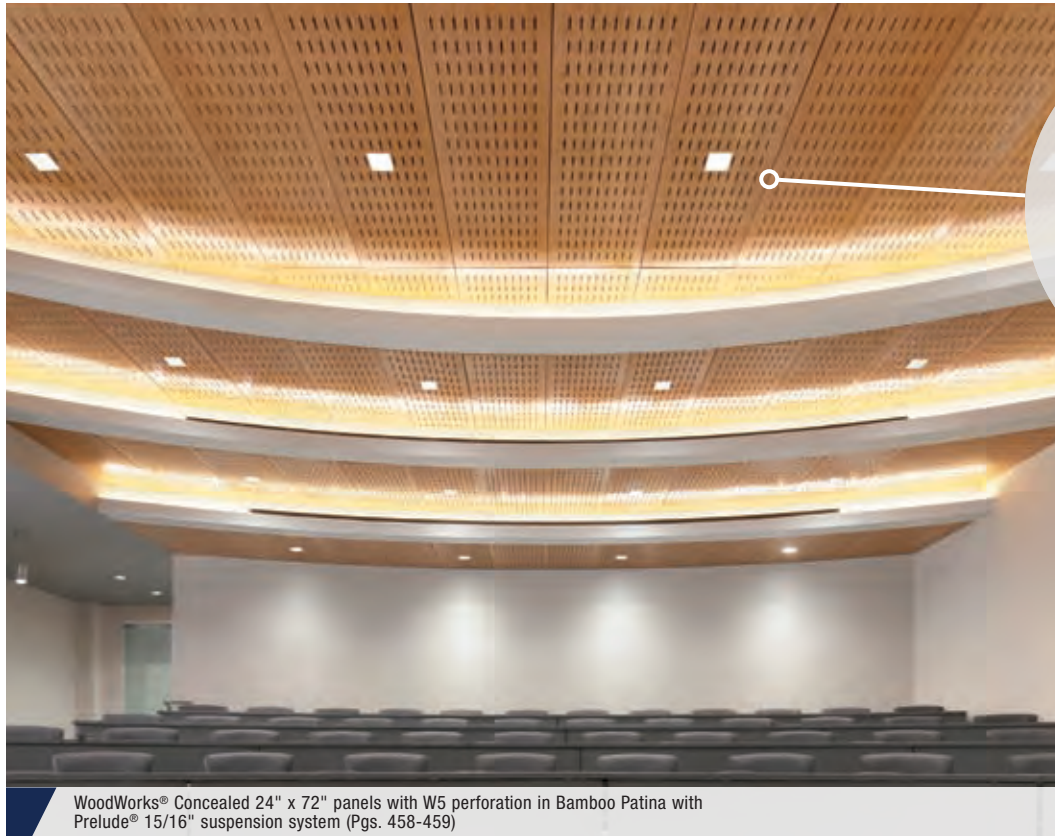
LEED® is a registered trademark of the U.S. Green Building Council®  
Revit® is a registered trademark of Autodesk, Inc.  
Rainforest Alliance Certified™ is a trademark of Rainforest Alliance.  
FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C., license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America



# WOODWORKS® Concealed

## Concealed Suspension

CAD/Revit® drawings at:  
armstrongceilings.com



plus capabilities  
to do more

armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

WoodWorks® Concealed 24" x 72" panels with W5 perforation in Bamboo Patina with Prelude® 15/16" suspension system (Pgs. 458-459)

This easy-to-install ceiling with a concealed suspension offers a continuous, monolithic visual.

### KEY SELECTION ATTRIBUTES

- Mix and match standard panel sizes on the same project
- Narrow 1/4" reveal visual and 6" aluminum trim available in coordinating wood finishes, or black
- Coordinating WoodWorks® walls (see pages 520-521 for wall offering)
- Patented hook-on panels (for standard 15/16" suspension system) provide safe and secure downward accessibility
- Shorter lead times and lower cost than custom millwork
- Factory-edge banded for superior quality
- Complete standard system from one manufacturer (suspension system/panels/trim)
- Acoustical fleece option available for increased sound absorption

### VENEERS Due to printing limitations, shade may vary from actual product.

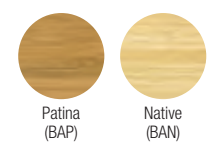
#### Natural Variations™ (Real Wood Veneers)



#### Constants™ (Real Wood Veneers)

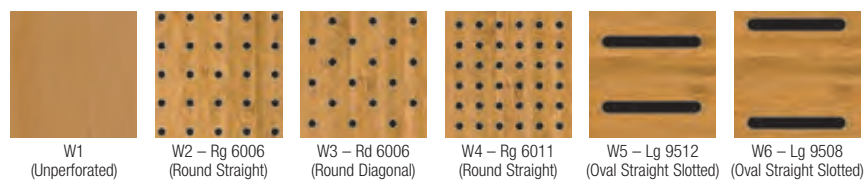


#### Bamboo\*



\* Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

### PERFORATION OPTIONS (Actual 1:6 scale shown)



Custom Perforations Available

NOTE: Slotted perforations run parallel to the length of the panel.



# WOODWORKS® Concealed Concealed Suspension



USDA  
CERTIFIED  
BIOBASED  
PRODUCT  
PRODUCT 100%



UP TO 75% RECYCLED CONTENT

For LEED contribution contact TechLine

LEED® energy management construction waste mgmt regional materials design for flexibility EPD recyclable/extended producer resp. biobased materials FSC (for wood) recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

## VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Perforations
<b>FSC®-certified WOODWORKS® Concealed</b>			
1/4" Reveal	<b>5983</b> _ _ _ _	24 x 48 x 3/4"	W1, W2, W3, W4, W5, W6
	<b>5984</b> _ _ _ _	24 x 72 x 3/4"	W1, W2, W3, W4, W5, W6
	<b>5985</b> _ _ _ _	24 x 96 x 3/4"	W1, W2, W3, W4, W5, W6

◆ When specifying or ordering, include the appropriate 2-digit perforation and 3-letter color suffixes. For veneers, sizes, and perforation patterns available as special order, call TechLine at 1 877 276-7876.

## ACCESSORIES

Item No. ◆	Description	Dimensions Nominal (Inches)	Color	Pieces/ Carton
<b>6603W1</b> _ _ _	WoodWorks Concealed Trim*	6" x 120"	Standard Veneers (see below)	6
<b>8200T10</b>	Fiberglass Infill Panel	24 x 24 x 1"	Black	12
<b>5479</b>	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Beige	12
<b>5823</b>	BioAcoustic Infill Panel	24 x 24 x 5/8"	Black (Matte)	12
<b>6408</b> _ _ _	Edge Banding	300" x 3/4"	Standard Veneers (see Pg. 236)	1
<b>7239</b>	Adjustable Trim Clip	-	N/A	50

◆ When specifying or ordering, include the 3-letter color suffix that coordinates with your WoodWorks ceiling (e.g., 6408 **N M P**)  
\* Trim cartons include FXTBC Clips and FX4SPLICE Splice Plates.  
NOTE: Adjustable Trim Clip used with standard Axiom® or MetalWorks™ Trim systems.

## SUSPENSION SYSTEMS

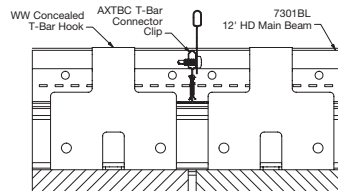
When ordering suspension system materials, please note that this product requires Prelude® Heavy-duty (HD) main beams and 2' cross tees that are full height (1-11/16"). Both suspension system components should be specified in Tech Black (BL).

### 15/16" Standard: Prelude® BL (Tech Black)

Item No.	Description	Dimensions (Inches)	Pieces/Carton
<b>5986</b>	T-Bar Hook†	Nominal 4 x 2 x 3"	50
<b>7123</b>	Wood Screws	5/8"	300/Pckg
<b>6091</b>	Safety Cable	24" x 3/32"	50
<b>SH12</b>	Support Hanger	144" x 2"	12

† For 24" x 48" panel, install 4 hooks; for 24" x 72" panel, install 6 hooks; for 24" x 96" panel, install 8 hooks.

NOTE: Three screws per hook. Refer to installation instructions at [armstrongceilings.com/installation](http://armstrongceilings.com/installation) for a better understanding of suspension systems requirements.



Installation Detail – WoodWorks Concealed Ceiling System

## PHYSICAL DATA

### Material

FSC®-certified fire-retardant particle board with face-cut veneers (RA-COC-003601). For more information about FSC®-certified products, or to view our FSC®-certification letter, visit [armstrongceilings.com/woodworksfs](http://armstrongceilings.com/woodworksfs)

6603 - Face-cut veneer or black paint on aluminum laminate substrate

### Surface Finish

Clear or tinted semigloss coating

### Fire Performance

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

### ASTM E1264 Classification

Composite – Fire Class A

### Primary (Embodied) Energy

See all LCA information on our EPDs.

### Application Considerations

Variation among panels may occur due to the natural characteristics of the wood and grain.

Use of large wood panels may result in deflection up to 1/8" and cause alignment inconsistency due to size and ambient conditions.

It is very important that WoodWorks® panels be climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

### Design Considerations

For additional configuration ideas, refer to the WoodWorks Concealed Technical Guide, BPCS-4274, or visit [armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)

Do not mix different panel sizes with slotted perforations. Perforation borders will not align. The use of Armstrong® Prelude® 15/16" suspension system is strongly recommended.

LEED® is a registered trademark of the U.S. Green Building Council® Rainforest Alliance Certified™ is a trademark of Rainforest Alliance. Revit® is a registered trademark of Autodesk, Inc. FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C. license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2019 AWI Licensing LLC Printed in the United States of America

## PERFORMANCE

Fire Rating	Soil
Class A	•
Class A	•
Class A	•

## ACOUSTICAL INFORMATION

Dots represent high level of performance.

Perforation	NRC**
<b>W1</b> Unperforated	N/A
<b>W2</b> Round Straight	0.40
<b>W3</b> Round Diagonal	0.40
<b>W4</b> Round Straight	0.65
<b>W5</b> Oval Straight Slotted	0.55
<b>W6</b> Oval Straight Slotted	0.40

\*\* Maximum NRC achieved with acoustical infill (item 8200T10 or 5479, unless noted otherwise).

EXAMPLE: **5983 W2 NLC**  
 Panel Dimension/Type: 2' x 4' FSC-certified  
 Perforation: W2 Round Straight Rg 6006  
 Finish: Natural Variations Light Cherry

TechLine / 1 877 276 7876  
[armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)  
(search: woodworks concealed)

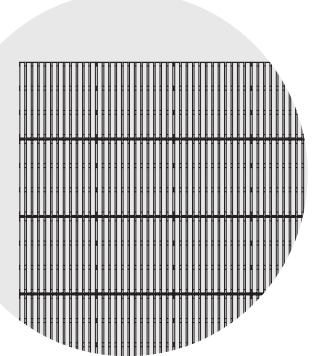
BPCS-5105-319



# WOODWORKS® Grille Tegular



CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



plus capabilities  
to do more

[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

WoodWorks® Grille Tegular in Light Cherry

Now get Total Acoustics® performance with WoodWorks® Grille Tegular horizontal slats – excellent noise reduction and sound blocking in one system.

## KEY SELECTION ATTRIBUTES

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Painted white finish for even more design flexibility
- Vertical slats are deeper than they are wide creating a more open feel
- Horizontal slats are wider than they are deep creating a warm, more solid look
- 24" x 24" and 24" x 48" sizes available in vertical and horizontal slat designs
- FSC® and Rainforest Alliance® Certification available upon request
- Panels are designed so the suspension system virtually disappears
- Tegular panels with backers easily install on standard suspension system
- Create continuous looks and clouds with Axiom® or solid wood trim
- Panels are downward accessible without the use of clips

## FINISH SELECTION

Due to printing limitations, shade may vary from actual product.



Grille White (GWH)



Grille Maple (GMP)



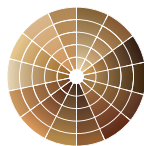
Grille Light Cherry (GLC)



Grille Dark Cherry (GDC)



Grille Walnut (GWN)



Custom Finishes Available

## TOTAL ACOUSTICS® PANEL INSTALLATION



WoodWorks® Grille ceiling panel with Calla® 2820BK acoustic infill panel for Total Acoustics® performance

# WOODWORKS® Grille Tegular



For LEED contribution contact TechLine



## VISUAL SELECTION

Edge Profile	Item No. ♦	Description	Dimensions Nominal W x L x H (Inches)	Custom Sizes Available
<b>FSC®-certified WOODWORKS® Grille Tegular for 9/16" Suspension System</b>				
	662808_ _ _	1/2" x 1-1/2" 12 horizontal slats	24 x 24 x 1" □	
	663008_ _ _	1/2" x 1-1/2" 12 horizontal slats	24 x 48 x 1" □	
	662912_ _ _	1/2" x 1-1/2" 12 vertical slats	24 x 24 x 2" □	
	<b>FSC®-certified WOODWORKS Grille Tegular for 15/16" Suspension System</b>			
	662812_ _ _	1/2" x 1-1/2" 10 horizontal slats	24 x 24 x 1" □	
	663012_ _ _	1/2" x 1-1/2" 10 horizontal slats	24 x 48 x 1" □	
	663112_ _ _	1/2" x 1-1/2" 12 vertical slats	24 x 48 x 2" □	

♦ When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 663008 G L Q).  
NOTE: For additional color and size options, call TechLine at 1 877 276 7876.

## TRIM

Item No. ♦	Description	Dimensions Nominal W x L x H (Inches)	Color	Pcs./ Ctn.
7146_ _ _	Solid Wood Trim	4 x 120 x 3/4"	GWH, GMP, GLC, GDC, GWN	Bulk

Axiom® Vector® Trim (Details can be found on pgs. 252-253)

## TRIM AND ACOUSTICAL INFILL PANELS

Trim and infill panels available. See Pgs. 252-253 in this catalog or visit [armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)

## SUSPENSION SYSTEM

15/16"	Prelude® XL® (Black recommended), 360° Painted with 4" cross tee rout holes at 12"
9/16"	Suprafine® XL® 9/16" Exposed Tee (Black recommended)

## PERFORMANCE

Fire Rating
See physical data below
See physical data below
See physical data below
See physical data below
See physical data below
See physical data below
See physical data below

LOCATION DEPENDENT

## ACOUSTICAL INFORMATION

Dots represent high level of performance.

WITH INFILL PANEL

Performance determined by slat spacing

Item Number	Infill Panel Item Number	NRC	+	CAC	=	Total Acoustics <sup>1</sup>
<b>662808</b> 9/16" Tegular 	5823	0.75		N/A		-
	1713BL	0.75	•	35	•	BETTER
	2820BK	0.85	•	35	•	BEST
<b>662812</b> 15/16" Tegular 	5823	0.75		N/A		-
	1713BL	0.75	•	35	•	BETTER
	2820BK	0.85	•	35	•	BEST

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

GOOD (NRC 0.60-0.65; CAC 35+)

BETTER (NRC 0.70-0.75; CAC 35+)

BEST (NRC 0.80+; CAC 35+)

For infill panel information, refer to Pg. 253.

## ACCESSORIES

Item No.	Description	Dimensions Nominal W x L (Inches)	Color	Pcs./ Ctn.
AXTBC	T-Bar Connector Clip	N/A	N/A	10
AXSPLICE	Splice Plate with Setscrews	N/A	N/A	10
SH12	Support Hanger	144 x 2"	N/A	12
5823	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black (Matte)	12
1713BL	School Zone® Fine Fissured™ Square Lay-in Acoustic Panel	24 x 24 x 3/4"	Tech Black	14
2820BK	Calla® Square Lay-in Acoustic Panel	24 x 24 x 1"	Black	10
<b>new</b> 7239	Adjustable Trim Clip	-	50	N/A

NOTE: Adjustable Trim Clip for integration with trim when face of panel should be level with bottom flange of trim.

## PHYSICAL DATA

### Material

Solid Poplar (yellow or hybrid) (RA-COC-003601)

### Surface Finish

Clear or tinted semigloss coating on all finishes except Grille White (GWH). Grille White (GWH) has a lacquer finish.

### Fire Performance

Solid Poplar Hardwood Slats and Backers – ASTM E84 surface burning characteristics. Flame Spread Index 200 or less. Smoke Developed Index 450 or less.

Fire performance will vary between species.

Class A intumescent treatment is available for all finishes except Grille White (GWH). Results will vary on a project-by-project basis. Contact TechLine at 1 877 276 7876 for details.

WoodWorks® Grille, as with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present. For more fire performance information, visit [armstrongceilings.com/grille](http://armstrongceilings.com/grille)

### Acoustics Considerations

NRC-tested using white panels. Painted panels may experience a slight reduction in NRC due to color painting processes.

### Application Considerations

Variation among panels may occur due to the natural characteristics of the wood and grain.

### Design Considerations

If no infill panel is used, unfinished parts of the suspension system and Axiom® trim will be visible from below.

Item 662912 24" x 24" vertical slat panels are designed for checkerboard only. An uneven reveal between slats will be visible, if installed in a linear fashion.

### Seismic Restraint

WoodWorks Grille has been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight (Bulk packaged)

662808, 662912, 663008, 663112 – 0.875 lbs/SF  
662812, 663012 – 0.775 lbs/SF

TechLine / 1 877 276 7876  
[armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)  
(search: woodworks grille tegular)

BPCS-5125-319

LEED® is a registered trademark of the U.S. Green Building Council  
Rainforest Alliance® and Rainforest Alliance Certified™ are trademarks of Rainforest Alliance. Revit® is a registered trademark of Autodesk, Inc.  
FSC® is a registered trademark of FSC. Forest Stewardship Council®, A.C., license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2019 AWI Licensing LLC  
Printed in the United States of America

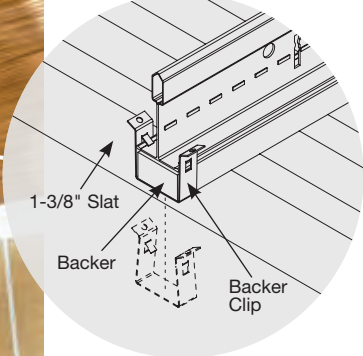
**Armstrong®**  
CEILING & WALL SOLUTIONS

239

# WOODWORKS® Grille

Solid Wood Backer, Dowel, and Backer & Dowel Combination

CAD/Revit® drawings at:  
armstrongceilings.com



plus capabilities  
to do more  
armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

WoodWorks® Custom Installation – Grille Faceted Ceiling 2-1/4" panels in Grille Light Cherry with Backer

These warm, natural wood ceilings offer installation flexibility and a variety of design options.

## KEY SELECTION ATTRIBUTES

- 13 pre-designed panels with new slat heights and widths
- Custom slat sizes and finishes available for every project
- Now, painted White finish for maximum design flexibility
- Install in the ceiling, on the wall, or create 90° angled or faceted ceiling-to-wall transitions
- Easy installation with dowel or backer, or backer and dowel combination
- FSC® and Rainforest Alliance Certified wood options available

## FINISH SELECTION

Due to printing limitations, shade may vary from actual product.



Grille White (GWH)



Grille Maple (GMP)



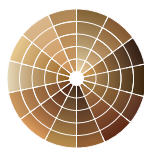
Grille Light Cherry (GLC)



Grille Dark Cherry (GDC)



Grille Walnut (GWN)



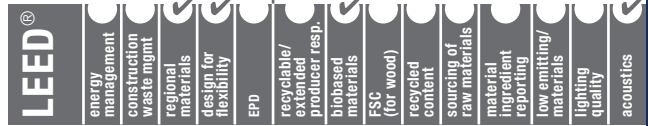
Custom Finishes Available

NOTE: Panel backers are black. Custom backer colors available.

# WOODWORKS® Grille

## Solid Wood Backer, Dowel, and Backer & Dowel Combination

For LEED contribution contact TechLine



### VISUAL SELECTION

Edge Profile	Item No. ◆	Slat Width	Slat Height	Slats Per Panel	Slat Spacing (Nominal)	Dimensions (Inches) Nominal W x L x H*
		Custom Slat Sizes Available				Custom Panel Sizes Available
<b>WOODWORKS® Grille – Backer, Dowel, and Backer &amp; Dowel Combination</b>						
Backer, Dowel, or Backer & Dowel Combination	<b>7263</b> _____	5/8"	1-3/8"	6 slats	1-3/8"	12 x 96 x 1-7/8" Backer Only 12 x 96 x 1-3/8" Dowel Only
	<b>7264</b> _____	5/8"	1-3/8"	8 slats	7/8"	12 x 96 x 1-7/8" Backer Only 12 x 96 x 1-3/8" Dowel Only
	<b>7265</b> _____	5/8"	2-1/4"	6 slats	1-3/8"	12 x 96 x 2-3/4" Backer Only 12 x 96 x 2-1/4" Dowel Only
	<b>7266</b> _____	5/8"	2-1/4"	8 slats	7/8"	12 x 96 x 2-3/4" Backer Only 12 x 96 x 2-1/4" Dowel Only
	<b>7091</b> _____	5/8"	3-1/4"	5 slats	1-3/4"	12 x 96 x 3-3/4" Backer & Dowel 12 x 96 x 3-1/4" Dowel Only
	<b>7092</b> _____	5/8"	3-1/4"	6 slats	1-3/8"	12 x 96 x 3-3/4" Backer & Dowel 12 x 96 x 3-1/4" Dowel Only
	<b>7093</b> _____	5/8"	4-1/4"	5 slats	1-3/4"	12 x 96 x 4-3/4" Backer & Dowel 12 x 96 x 4-1/4" Dowel Only
	<b>7094</b> _____	1"	2-1/4"	4 slats	2"	12 x 96 x 2-3/4" Backer Only 12 x 96 x 2-1/4" Dowel Only
	<b>7095</b> _____	1"	3-1/4"	4 slats	2"	12 x 96 x 3-3/4" Backer Only 12 x 96 x 3-1/4" Dowel Only
	<b>7096</b> _____	1"	4-1/4"	4 slats	2"	12 x 96 x 4-3/4" Backer & Dowel 12 x 96 x 4-1/4" Dowel Only
	<b>7097</b> _____	1-1/4"	3-1/4"	3 slats	2-3/4"	12 x 96 x 3-3/4" Backer Only 12 x 96 x 3-1/4" Dowel Only
	<b>7098</b> _____	1-1/4"	4-1/4"	3 slats	2-3/4"	12 x 96 x 4-3/4" Backer & Dowel 12 x 96 x 4-1/4" Dowel Only
	<b>7099</b> _____	1-1/4"	5-1/4"	3 slats	2-3/4"	12 x 96 x 5-3/4" Backer & Dowel 12 x 96 x 5-1/4" Dowel Only

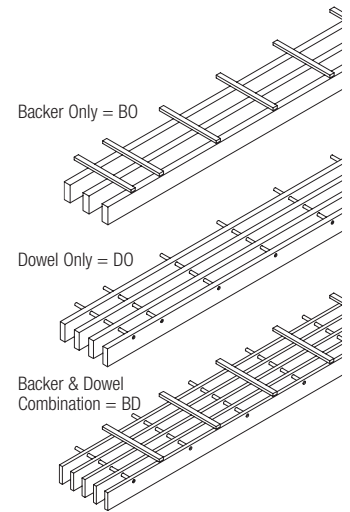
◆ When specifying or ordering please include the installation type and color suffixes (e.g., 7092 B D G L C – 6 slats 3-1/4" Backer & Dowel in Grille Light Cherry).  
Installation suffixes: BO = Backer, DO = Dowel, BD = Backer & Dowel Combination  
NOTE: For additional color and size options, or curved applications options with flexible Backers (special order), call TechLine at 1 877 276 7876.  
\* Actual panel length is 95"  
NOTE: Panel backers are black. Custom backer colors available.

### ACOUSTICAL INFORMATION

Dots represent high level of performance.

Infill Panel Item Number	NRC	+	CAC	=	Total Acoustics NRC + CAC
5823	0.85		28		–
or					
6657	0.75				
8200T10	0.90		28		–

### SUFFIX GUIDE



### ACCESSORIES

Item No. ◆	Description	Dimensions Nominal W x L (Inches) Custom Sizes Available	Color	Pcs/ Ctn	Item Number ◆	Description	Dimensions Nominal W x L (Inches)	Color	Pcs/ Ctn
<b>5672</b> _____	Junction – 1-3/8"	1-1/2 x 96 x 2"	All finishes	Bulk	<b>5688</b>	Dowel Clip	3/8 x 7/8 x 7/8"	N/A	250 pcs/pail
<b>5674</b> _____	End Cap – 1-3/8"	3/4 x 96 x 2"	All finishes	Bulk	<b>5671</b> _____	Ledger	1 x 96 x 1/4"	All finishes	Bulk
<b>5675</b> _____	End Cap – 2-1/4"	3/4 x 96 x 2-3/4"	All finishes	Bulk	<b>7891</b>	12-Gauge Soft Hanger Wire	144" Length	N/A	140
<b>7170</b> _____	End Cap – 3-1/4"	3/4 x 96 x 3-3/4"	All finishes	Bulk	<b>92715A620</b>	Self-tapping Screws	#2 x 3/4" Length	Black	25
<b>7171</b> _____	End Cap – 4-1/4"	3/4 x 96 x 4-3/4"	All finishes	Bulk	<b>6459BL</b>	Uptight Clip	5-1/2" x 1-3/4"	Black	25
<b>7172</b> _____	End Cap – 5-1/4"	3/4 x 96 x 5-3/4"	All finishes	Bulk	<b>RC2BL</b>	RC2 Radius Clip	N/A	Black	205
<b>5687</b>	Backer Clip	3/8 x 11/16 x 7/8"	N/A	250 pcs/pail	<b>7239</b>	Adjustable Trim Clip	–	N/A	50

◆ When specifying or ordering, include the 3-letter color suffix that coordinates with your WoodWorks ceiling: (e.g., 5671 G M P).  
NOTE: For integration with Axiom® trim (Black recommended for use with Solid Wood).

### SUSPENSION SYSTEMS

15/16"



TechLine 877 276 7876  
armstrongceilings.com/woodworks

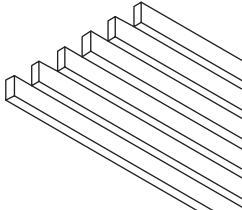
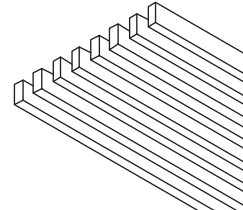
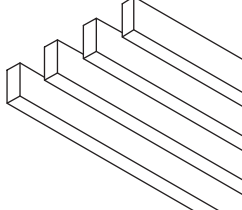
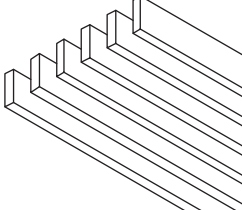
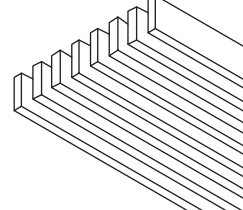
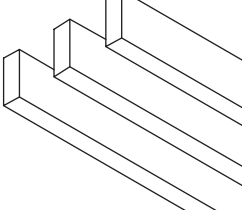
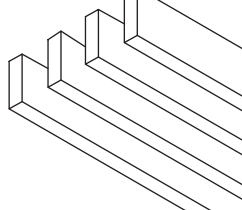
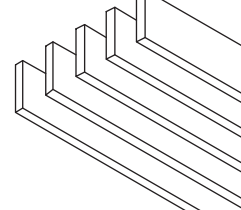
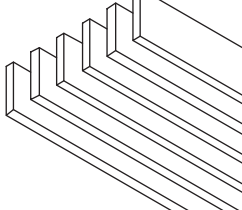
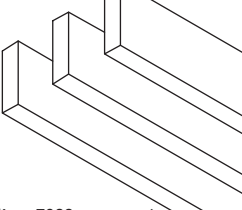
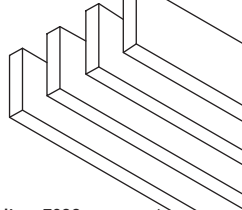
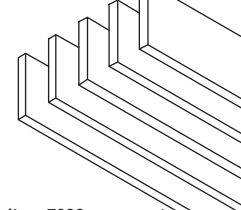
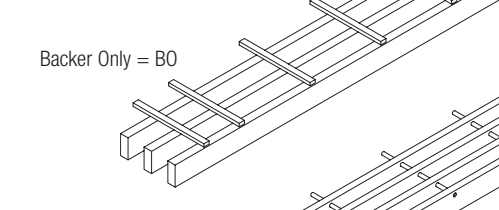
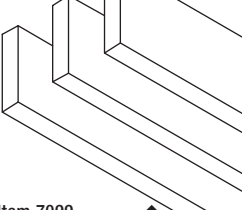
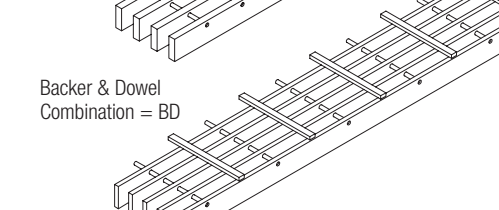
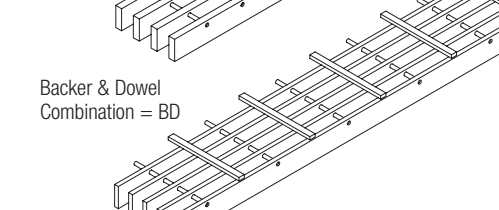
### TRIM AND ACOUSTICAL INFILL PANELS

Trim and infill panels available. See pages 252-253 in this catalog or visit [armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)

# WOODWORKS® Grille

Solid Wood Backer, Dowel, and Backer & Dowel Combination

## STANDARD SIZES

	1-1/4" SLAT WIDTH 3 Slats Per Panel	1" SLAT WIDTH 4 Slats Per Panel	5 Slats Per Panel	5/8" SLAT WIDTH 6 Slats Per Panel	8 Slats Per Panel
1-3/8" SLAT HEIGHT				 <p>Item 7263 Backer Only or Dowel Only</p>	 <p>Item 7264 Backer Only or Dowel Only</p>
2-1/4" SLAT HEIGHT		 <p>Item 7094 Backer Only or Dowel Only</p>		 <p>Item 7265 Backer Only or Dowel Only</p>	 <p>Item 7266 Backer Only or Dowel Only</p>
3-1/4" SLAT HEIGHT	 <p>Item 7097 Backer Only or Dowel Only</p>	 <p>Item 7095 Backer Only or Dowel Only</p>	 <p>Item 7091 Dowel Only or Backer &amp; Dowel</p>	 <p>Item 7092 Dowel Only or Backer &amp; Dowel</p>	
4-1/4" SLAT HEIGHT	 <p>Item 7098 Dowel Only or Backer &amp; Dowel</p>	 <p>Item 7096 Dowel Only or Backer &amp; Dowel</p>	 <p>Item 7093 Dowel Only or Backer &amp; Dowel</p>	 <p>Backer Only = BO</p>	
5-1/4" SLAT HEIGHT	 <p>Item 7099 Dowel Only or Backer &amp; Dowel</p>			 <p>Dowel Only = DO</p>	
				 <p>Backer &amp; Dowel Combination = BD</p>	

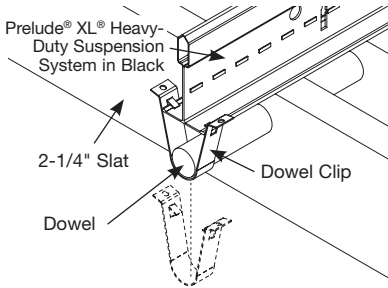
◆ When specifying or ordering please include the installation type and color suffixes (e.g., 7092 B D G L C – 6 slats 3-1/4" Backer & Dowel in Grille Light Cherry).



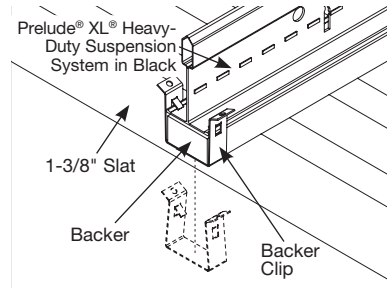
# WOODWORKS® Grille

## Solid Wood Backer, Dowel, and Backer & Dowel Combination

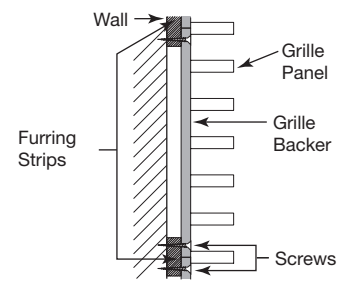
### SYSTEM INSTALLATION DETAILS



Ceiling Dowel Assembly

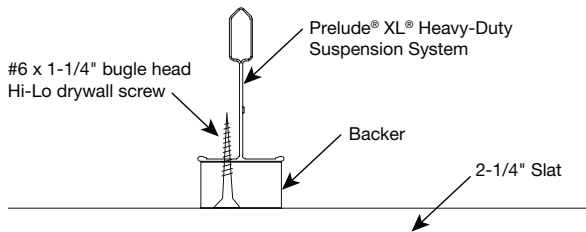


Ceiling Backer Assembly



Wall Backer Assembly

Slat sizes over 2-1/4" are not recommended for wall applications. Contact TechLine for details at 1 877 276-7876.



Screw Attachment Detail

NOTE: See Woodworks® Grille installation instructions for details on faceted and seismic installations at [armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)



### ACOUSTICAL PERFORMANCE

Noise Reduction Coefficient, or NRC, is a measure for rating the overall sound absorption of a material when used in an enclosed architectural space such as an office, where sound is reflected at many angles of incidence. WoodWorks® Grille has an NRC value of 0.85 when installed with a BioAcoustic™ infill panel 5823.

NRC is important in any closed space where reverberation time and noise levels are an issue:

- Closed offices, conference rooms
- Mixed plan office
- Lobby, reception, and work areas
- Classrooms/core learning areas, gymnasiums, cafeterias
- Retail spaces; checkout and other customer contact areas

Factors that may affect the installed acoustical performance relative to the published results are:

- Size of area
- Number of panels
- Layout of panels
- Suspension distance below exposed deck or finished ceiling
- Other surfaces in the space

Ceiling	Exposed Structure (no Ceiling)	Ultima® (100% Ceiling)	WoodWorks® Grille (100% Ceiling)
Reverberation Time (RT)	3.4 seconds	0.5 seconds	0.5 seconds
RT Improvement	N/A	85%	85%
Background Noise Reduction in Decibels (dB)	N/A	4.7dB	5.8dB

NOTE: You can calculate the acoustical difference that WoodWorks Grille panels can make in your space by using our online Reverb Calculator Tool at [armstrongceilings.com/reverbtool](http://armstrongceilings.com/reverbtool)

### PHYSICAL DATA

#### Material

Dowel, Slats, Backers, and Tegular panels – solid Poplar (yellow or hybrid).

#### Surface Finish

Clear or tinted semi-gloss coating on all finishes except Grille White (GWH). Grille White (GWH) has a lacquer finish.

#### Fire Performance

Solid Poplar (yellow or hybrid) Hardwood Slats and Backers – Class C ASTM E84 surface burning characteristics. Flame Spread Index 200 or less. Smoke Developed Index 450 or less.

Fire performance will vary between wood species. Flame stop Class A coating available.

Class A intumescent treatment is available for all finishes except Grille White (GWH). Contact TechLine at 1 877 276-7876 for details.

These panels, as with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat

from a fire either toward or away from the device. Consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

#### Application Considerations

Variation among panels may occur due to the natural characteristics of the wood and grain.

#### Design Considerations

Custom slat and panel sizes available.

#### Backer & Dowel

For slat heights over 5", both Dowels and Backers are required for stability. Backer height is 1/2". Panel backers are black. Custom backer colors available.

#### Infill Panel Use

If no infill panel is used, unfinished parts of the suspension system and Axiom® trim will be visible from below.

#### Site Conditions

It is very important that panels be climatized prior to installation. Relative humidity between 25% and 55% and temperatures between 50°F and 86°F must be maintained.

#### Installation Consideration

When junction accessory is not used, the result will be a 1" gap between slat lengths.

#### Seismic Restraint

WoodWorks® Grille panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

#### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

#### Weight

7263 – 0.8 lbs/SF  
7264 – 1.1 lbs/SF  
7094 – 1.4 lbs/SF  
7265 – 1.3 lbs/SF  
7266 – 1.8 lbs/SF  
7097 – 1.9 lbs/SF  
7095 – 2.1 lbs/SF  
7091 – 1.6 lbs/SF  
7092 – 1.9 lbs/SF  
7098 – 2.5 lbs/SF  
7096 – 2.7 lbs/SF  
7093 – 2.1 lbs/SF  
7099 – 3.1 lbs/SF

TechLine / 1 877 276 7876  
[armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)  
(search: woodworks grille)

BPCS-5106-319

LEED® is a registered trademark of the U.S. Green Building Council  
Revit® is a registered trademark of Autodesk, Inc.  
FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C., license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

243

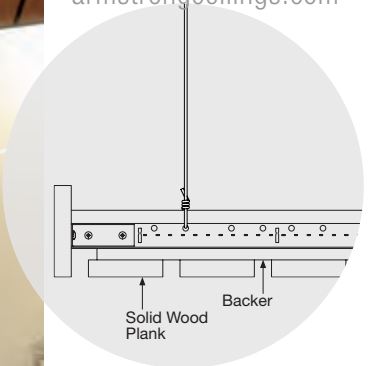


WOODWORKS®

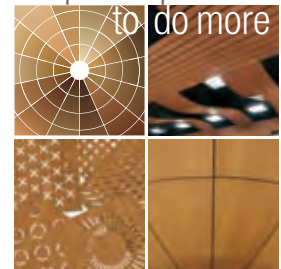
# WOODWORKS® Linear/ WOODWORKS® Linear Exterior

## Solid Wood Panels

CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



plus capabilities  
to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

WoodWorks® Linear Solid Wood panels in Grille Dark Cherry on Prelude® XL® 15/16" suspension system (Pgs. 458-459)

Now, standard linear solutions with the beautiful color variation and graining of solid wood for interior and exterior applications.

### KEY SELECTION ATTRIBUTES

- Two plank widths – nominal 3" and nominal 5"
- Fast, easy installation – screw into suspension system or install with backer clip
- Create continuous looks and clouds with solid wood trim
- Complete standard system from one manufacturer
- BioAcoustic™ infill available for increased acoustical performance
- Acoustical fleece available as an option for interior applications
- Interior only panels are solid Poplar wood
- Western Hemlock panels excellent for exterior applications
- Six exterior finishes, five interior finishes
- Use items 8118 or 8117 to transition from indoors to outdoors for dramatic design

### INTERIOR – ONLY FINISHES

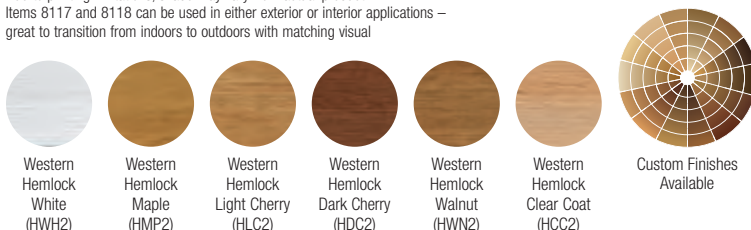
Due to printing limitations, shade may vary from actual product. Items 8176 and 8177 can only be used in interior applications.



NOTE: Interior only finishes will coordinate with Exterior/Interior finishes, but are not intended to match.

### EXTERIOR/INTERIOR FINISHES

Due to printing limitations, shade may vary from actual product. Items 8117 and 8118 can be used in either exterior or interior applications – great to transition from indoors to outdoors with matching visual





# WOODWORKS® Linear

## Solid Wood Panels

For LEED contribution contact TechLine



### VISUAL SELECTION

### PERFORMANCE

Edge Profile	Item No.	Description	Dimensions Nominal W x L x H (Inches)
<b>WOODWORKS® Linear Solid Wood Panels</b>			
<b>INTERIOR ONLY (Includes 8176 and 8177) ◆</b>			Custom Sizes Available
	<b>8176W1</b> _ _ _	Nominal 3" wide planks	12 x 96 x 3/4"
	<b>8177W1</b> _ _ _	Nominal 5" wide planks	12 x 96 x 3/4"
<b>EXTERIOR/INTERIOR (Includes 8117 and 8118) ◆ ◆</b>			
	<b>8117W1</b> _ _ _ _	Nominal 3" wide planks	12 x 96 x 3/4"
	<b>8118W1</b> _ _ _ _	Nominal 5" wide planks	12 x 96 x 3/4"

Fire Rating	Acoustics NRC*
	Only applicable in indoor applications
See below	0.60
See below	0.50
See below	0.60
See below	0.50

◆ When specifying or ordering 8176 or 8177 include the 3-letter color suffix that coordinates with your WoodWorks ceiling: (e.g., 8176W1 **G M P**)  
 ◆ When specifying or ordering 8117 or 8118 panels, include the 4-letter interior/exterior finish color suffix that coordinates with your woodworks ceiling: (e.g., 8117 **H W N Z**) GMP finishes are not available on Interior/Exterior NRC achieved with acoustical infill (Item 8200T10).

NOTE: For additional color and size options, or acoustical felt available as a custom option, call TechLine at 1 877 276 7876.

### ACCESSORIES FOR INTERIOR INSTALLATIONS

Item No.	Description	Dimensions (Inches) Nominal W x L x H	Color	Pieces/Carton
<b>7146</b> _ _ _	Solid Wood Trim	4 x 120 x 3/4"	See Finishes Below	Bulk
<b>5687†</b>	Backer Clip	3/8 x 11/16 x 7/8"	N/A	250 pcs/pail
<b>5671</b> _ _ _	Ledger	1 x 96 x 1/4"	See Finishes Below	Bulk
<b>7891</b>	12 Gauge Soft Hanger Wire	144" Length	N/A	140
<b>92715A620</b>	Self-tapping Screws	#2 x 3/4" Length	Black	25
<b>6657</b>	BioAcoustic™ Infill Panel	11 x 48 x 5/8"	Black (Matte)	10
<b>7239</b>	Adjustable Trim Clip	—	—	50

† Backer clip should only be used when installing panels with 3" wide nominal planks.  
 NOTE: Adjustable Trim Clip – for use with black Axiom® trim

### SUSPENSION SYSTEMS FOR INTERIOR INSTALLATIONS

15/16"



Solid wood is a natural product and will exhibit natural variations in color, grain, and texture, and knot holes of up to 1/2" in diameter.



### ACCESSORIES

Accessories, trim, infill panels are available. See Pgs. 252-253 in this catalog or visit [armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)

### PRELUDE XL SUSPENSION SYSTEM FOR EXTERIOR INSTALLATIONS

Item No.	Description	Dimensions (Inches) Nominal W x L x H	Color	Pieces/Carton
<b>7301G90ABL</b>	12' Exterior HD Main Beam	144 x 15/16 x 1-11/16"	Black	20
<b>XL7341G90ABL</b>	4' Cross Tee	48 x 15/16 x 1-11/16"	Black	60
<b>XL7321G90ABL</b>	2' Cross Tee	24 x 15/16 x 1-11/16"	Black	60
<b>HD7801G90ABL</b>	10' Hemmed Angle Molding	120 x 7/8 x 7/8"	Black	30

NOTE: Exterior grade screws, equivalent to #6 x 1" Zinc-Aluminum coated steel sheet metal screws, will be used to attach panels to the suspension system.

### PHYSICAL DATA

#### Material

Items 8176 and 8177 – planks and backers are solid poplar.  
 Items 8117 and 8118 – planks and backers are solid western hemlock.

#### Surface Finish

Clear or tinted semigloss coating on all finishes except White (GWH and HWH2). White products have a lacquer finish. Items 8117 and 8118 have been manufactured to perform well in exterior conditions.

#### Fire Performance

Solid Poplar Hardwood Slats and Backers – ASTM E84 surface burning characteristics. Flame Spread Index 200 or less. Smoke Developed Index 450 or less.

Class A intumescent treatment is available for all finishes except White (GWH and HWH2).

Contact TechLine at 1 877 276 7876 for details.

WoodWorks® Linear Solid Wood Panels, as with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

#### Application Considerations

Variation among panels may occur due to the natural characteristics of the wood and grain.

#### Design Considerations

Panels installed in exterior applications should be installed under overhangs, soffits or other covered spaces to protect them for direct contact with the elements. For interior-only panels, relative humidity between 25% and 55%, and temperature between 50 and 86 degrees F must be maintained.

#### Installation Consideration

System is designed to have a 1" gap between panels. Backer clip can only be used for installation of interior-only panels.

#### Seismic Restraint

WoodWorks Linear solid wood panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

#### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

#### Weight

8117 – 1.25 lbs/SF  
 8118 – 1.25 lbs/SF  
 8176 – 1.25 lbs/SF  
 8177 – 1.25 lbs/SF  
 (Bulk packaged)  
 NOTE: exterior panels installed in extreme humid conditions can weigh up to 2 lbs/SF

TechLine / 1 877 276-7876  
[armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)  
 (search: woodworks linear solid wood panels)

BPCS-5107-319

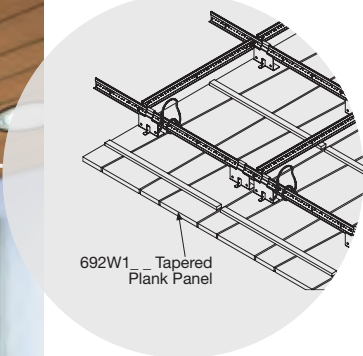
LEED® is a registered trademark of the U.S. Green Building Council  
 Rainforest Alliance Certified™ is a trademark of Rainforest Alliance.  
 Revit® is a registered trademark of Autodesk, Inc. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
 © 2019 AWI Licensing LLC Printed in the United States of America



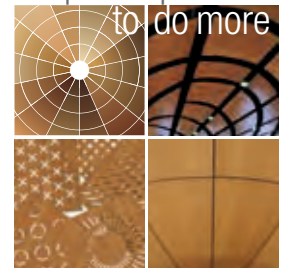
# WOODWORKS® Linear

## Veneered Panels

CAD/Revit® drawings at:  
armstrongceilings.com



plus capabilities  
to do more



armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

WoodWorks® Linear Veneer panels in tapered visual and Natural Variations™ Light Cherry finish

These unique tapered or traditional wood panels offer a variety of linear looks.

### KEY SELECTION ATTRIBUTES

#### Veneered Panels

- Panels in nominal 4" or 6" widths
- Create continuous looks and clouds with veneer-wrapped and painted aluminum trim
- Hook-on panels (for standard 15/16" suspension system) provide safe and secure downward accessibility
- Complete standard system from one manufacturer (suspension system/ panels/trim)
- Factory-edge banded for superior quality
- 100% Biobased content
- BioAcoustic™ infill available for increased acoustical performance

### VENEERS Due to printing limitations, shade may vary from actual product.

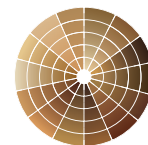
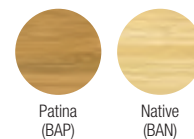
#### Natural Variations™ (Real Wood Veneers)



#### Constants™ (Real Wood Veneers)



#### Bamboo\*



Custom Veneers  
Available

\* Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

# WOODWORKS® Linear Veneered Panels



UP TO 75% RECYCLED CONTENT

For LEED contribution contact TechLine



## VISUAL SELECTION

Edge Profile	Item No. ◆	Description	Dimensions Nominal W x L x H (Inches) Custom Sizes Available
<b>FSC®-certified WOODWORKS® Linear Veneered Panels</b>			
	<b>6690W1</b> _ _ _	Nominal 4" wide planks	24 x 96 x 3/4"
	<b>6691W1</b> _ _ _	Nominal 6" wide planks	24 x 96 x 3/4"
	<b>6692W1</b> _ _ _	Tapered planks	24 x 96 x 3/4"

◆ When specifying or ordering, include the appropriate 3-letter color suffixes.  
NOTE: Veneers and sizes available as special order; call TechLine at 1 877 276 7876.

## PERFORMANCE

Fire Rating	Acoustics NRC*
Class A	0.45
Class A	0.20
Class A	0.20

\* NRC achieved with BioAcoustic™ infill (item 6657).

EXAMPLE: **6690W1 NLC**

Panel Dimension/Type: 2' x 8' Nominal 4" wide planks  
Finish: Natural Variations™ Light Cherry

## ACCESSORIES

Item No. ◆	Description	Dimensions Nominal (Inches)	Color	Pieces/ Carton
<b>6603W1</b> _ _ _	WoodWorks Concealed Trim**	6" x 120"	Standard Veneers and Black (BL)	6
<b>8200T10</b>	Fiberglass Infill Panel	24 x 24 x 1"	Black	12
<b>5479</b>	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Beige	12
<b>5823</b>	BioAcoustic Infill Panel	24 x 24 x 5/8"	Black (Matte)	12
<b>6408</b> _ _ _	Edge Banding	300" x 3/4"	Standard Veneers (see page 221)	1
<b>7239</b>	Adjustable Trim Clip	—	—	50

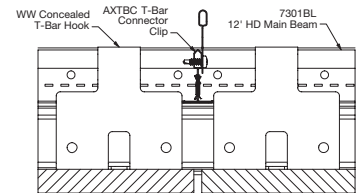
◆ When specifying or ordering, include the 3-letter color suffix that coordinates with your WoodWorks ceiling (e.g., 6408 **N M P**)  
\*\* Trim cartons include FXTBC Clips and FX4SPlice Splice Plates.  
NOTE: Adjustable Trim Clip – for use with black Axion® trim

## SUSPENSION SYSTEMS

When ordering suspension system materials, please note that this product requires Prelude® 15/16" Heavy-duty (HD) main beams and 2' cross tees that are full height (1-11/16"). Both suspension system components should be specified in Tech Black (BL).

Item Number	Description	Dimensions (Inches)	Pieces/Carton
<b>5986</b>	T-Bar Hook†	Nominal 4 x 2 x 3"	50
<b>7123</b>	Wood Screws	5/8"	300/Pkg
<b>6091</b>	Safety Cable	24" x 3/32"	50 (2 required per panel)
<b>SH12</b>	Support Hanger	144" x 2"	12

† For 24" x 96" panel, install eight hooks. NOTE: three screws per hook.  
NOTE: Refer to installation instructions at [armstrongceilings.com/installation](http://armstrongceilings.com/installation) for a better understanding of suspension system requirements.



Installation Detail

## PHYSICAL DATA

### Material

FSC®-certified fire-retardant particle board with face-cut veneers (RA-COC-003601). For more information about FSC®-certified products, or to view our FSC®-certification letter, visit [armstrongceilings.com/woodworksfscc](http://armstrongceilings.com/woodworksfscc)

### Surface Finish

Clear or tinted semigloss coating

### Fire Performance

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

### ASTM E1264 Classification

Composite – Fire Class A

### Application Considerations

Variation among panels may occur due to the natural characteristics of the wood and grain.

Use of large wood panels may result in deflection up to 1/8" and cause alignment inconsistency due to size and ambient conditions.

It is very important that WoodWorks® panels be climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained throughout the life of the product.

### Design Considerations

Cloud installations with total panel width less than 6' wide are not recommended.

Cloud installations must be at least two panels in length so that the short ends of panels interfacing with the trim can be installed with the open side of the hooks facing the perimeter. See installation instructions for details.

### Specification Consideration

Attention: For FSC®-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

### Seismic Restraint

WoodWorks® Linear panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight

6690, 6691, 6692 – 2.75 lbs/SF; bulk-packaged per order. Suspension system, hardware, and accessories ordered separately.

TechLine / 1 877 276-7876  
[armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)  
(search: woodworks linear veneered panels)

BPCS-5126-319

LEED® is a registered trademark of the U.S. Green Building Council  
Rainforest Alliance Certified™ is a trademark of Rainforest Alliance.  
Revit® is a registered trademark of Autodesk, Inc.  
FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C., license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America



247

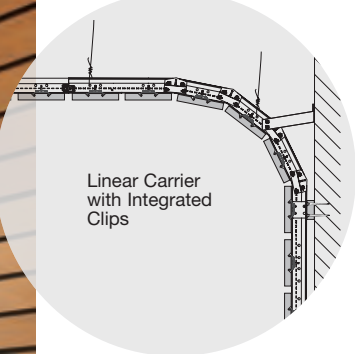
WOODWORKS®



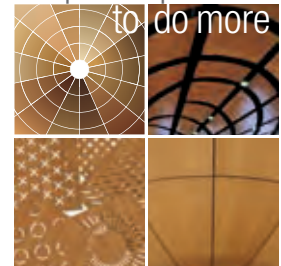
# WOODWORKS® Linear

## Veneered Planks

CAD/Revit® drawings at:  
armstrongceilings.com



plus capabilities  
to do more



armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

WoodWorks® Linear planks 96" x 3-3/4" in Natural Variations™ Light Cherry; Ceiling-to-Wall Faceted Transition

Standard, easy-to-install wood veneer planks offer a variety of installation options.

### KEY SELECTION ATTRIBUTES

#### Veneered Planks

- Standard wood planks in two widths; nominal 4-1/2" and 6" modules, with traditional 3/4" reveals
- Standard factory-applied acoustic fleece
- Installation system allows for installation on the ceiling, wall, at 90° angle, or in a curved ceiling-to-wall transitions (one-foot minimum radius)
- Create upturns for continuous visuals and clouds with veneer-wrapped WoodWorks trim
- Suspension system and planks from one manufacturer; improved for 30-50% faster installation
- 100% Biobased content

### VENEERS Due to printing limitations, shade may vary from actual product.

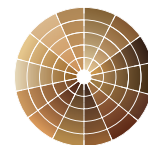
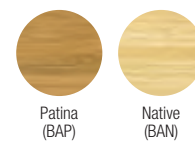
#### Natural Variations™ (Real Wood Veneers)



#### Constants™ (Real Wood Veneers)



#### Bamboo\*



Custom Veneers  
Available

\* Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

# WOODWORKS® Linear

## Veneered Planks



USDA  
CERTIFIED  
BIOBASED  
PRODUCT  
PRODUCT 100%



UP TO 75% RECYCLED CONTENT

For LEED contribution contact TechLine



### VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions Nominal W x L x H (Inches) Custom Sizes Available
<b>WOODWORKS® Linear – Nominal 4-1/2" Module</b>		
	6440W1 _ _ _	96 x 3-3/4 x 3/4" with 3/4" reveal
	6640W1 _ _ _ (FSC®-certified)	96 x 3-3/4 x 3/4" with 3/4" reveal
<b>WOODWORKS Linear – Nominal 6" Module</b>		
	6460W1 _ _ _	96 x 5-1/4 x 3/4" with 3/4" reveal
	6660W1 _ _ _ (FSC®-certified)	96 x 5-1/4 x 3/4" with 3/4" reveal

◆ When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 6440W1 **N M P**)

### ACCESSORIES

For additional accessory items see pages 252-253.

Item No.	Description	Dimensions Nominal (Inches)	Pieces/Carton
5843	Linear Wood Panel Splice	—	100
5948	Linear and Channeled Trim Connector Clip	N/A	30
RC2BL	Radius Clip for faceted grid applications (Black)	—	205 pcs/bucket
6459BL	Rigid Attachment Clip (Black)	5-1/2" x 1-3/4"	25
<b>new</b> 7239	Adjustable Trim Clip	—	50

NOTE: Adjustable Trim Clip – for use with black Axiom® trim

### SUSPENSION SYSTEM

Item Number	Description	Color	Dimensions (Inches)	Pieces/Carton
5370	12' HD Linear Carriers (concealed) with integral clips (factory-applied) for nominal 4-1/2" modules	Black	144 x 15/16 x 1-11/16"	10 (Approx. 240 SF/ctn installed with planks)
5371	12' HD Linear Carriers (concealed) with integral clips (factory-applied) for nominal 6" modules	Black	144 x 15/16 x 1-11/16"	10 (Approx. 240 SF/ctn installed with planks)

NOTE: For radiused applications, use standard panels and HD linear carriers faceted 12" on center with RC2BL clips.

### PHYSICAL DATA

#### Material

Fire-retardant particle board with face-cut veneers. FSC®-certified fire-retardant particle board with face-cut veneers (RA-COC-003601). For more information about FSC®-certified products or to view our FSC®-certification letter, visit [armstrongceilings.com/woodworksfscc](http://armstrongceilings.com/woodworksfscc). Factory-applied black fleece on each plank to cover the reveal.

#### Surface Finish

Clear or tinted semigloss coating

#### Fire Performance

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

Linear wood, as with other architectural features located at the ceiling, may obstruct or skew the

planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

#### ASTM E1264 Classification

Composite – Fire Class A

#### Application Considerations

Variation among panels may occur due to the natural characteristics of the wood and grain.

It is very important that WoodWorks® planks are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained.

#### Specification Consideration

Attention: For FSC-certified wood products to maintain their CoC certification, products must be sold to a CoC certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

#### Installation Considerations

Installation can use staggered, random joints for a monolithic appearance or consistent lengths for a modular style. For expansion, a 3/4" gap is recommended at every 24-foot run of plank. See installation instructions BPLA-297443 at [armstrongceilings.com/installation](http://armstrongceilings.com/installation).

#### Seismic Restraint

WoodWorks Linear planks have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

#### Warranty

Warranty details at [armstrongceilings.com](http://armstrongceilings.com)

#### Weight

6440, 6640 – 2.88 lbs/SF  
6460, 6660 – 2.89 lbs/SF  
(Bulk packaged)

TechLine / 1 877 276-7876  
[armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)  
(search: woodworks linear veneered planks)

BPCS-5127-319

LEED® is a registered trademark of the U.S. Green Building Council. Rainforest Alliance Certified™ is a trademark of Rainforest Alliance. Revit® is a registered trademark of Autodesk, Inc. FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C., license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2019 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

249

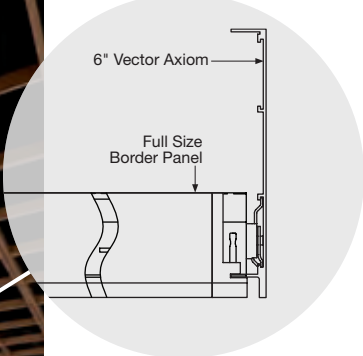
DEF



WOODWORKS®

# WOODWORKS® Open Cell Vector®

CAD/Revit® drawings at:  
armstrongceilings.com



WoodWorks® Open Cell – Vector® Four Square 24" x 24" panels in Grille Walnut with Axiom® Vector® trim in Pewter Luster on Prelude® 15/16" suspension system in Pewter Luster (Pgs. 458-459)

plus capabilities  
to do more

armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

A decorative, solid wood ceiling that is 100% accessible

## KEY SELECTION ATTRIBUTES

- Enhance space volume with open structure design
- Choose from a variety of standard designs and finishes
- Mix panel sizes for a variety of looks
- Vector® edge detail provides safe and secure downward accessibility without tools and narrow reveal visual (1/4")
- Suspension system, trim, and accessories designed and tested to work with WoodWorks® Open Cell panels
- BioAcoustic™ in-fill panel can be used to enhance acoustics

## FINISHES

Due to printing limitations, shade may vary from actual product.



## PANEL SELECTION



Item 6622 – Four Square  
Available 24" x 24" and 24" x 48"

Item 6623 – Multi-Square  
Available 24" x 24" and 24" x 48"

Item 6624 – Linear  
Available 24" x 24" only

# WOODWORKS® Open Cell Vector®



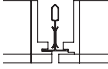





For LEED contribution contact TechLine

## VISUAL SELECTION

## PERFORMANCE

Dots represent high level of performance.

WITH INFILL PANEL

Edge Profile	Item No. ◆	Description	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Image	Fire Rating	Acoustics NRC
<b>FSC® certified WOODWORKS® Open Cell – Vector®</b>						
1/4" Reveal with 15/16" Vector 	6622_ _ _	Four Square with 12" Cells	24 x 24 x 2-1/4"		See below	0.75†
	6623_ _ _	Multi-Square with 6" Cells	24 x 24 x 2-1/4"		See below	0.75†
	6624_ _ _	Linear with 6" Cells	24 x 24 x 2-1/4"		See below	0.75†
	6625_ _ _	Four Square with 12" Cells	24 x 48 x 2-1/4"		See below	0.75†
	6626_ _ _	Multi-Square with 6" Cells	24 x 48 x 2-1/4"		See below	0.75†

◆ When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 6622 G M P).  
NOTE: For additional color and size options available as special order, call TechLine at 1 877 276-7876.

† NRC measured using BioAcoustic™ infill item 5823

## ACCESSORIES For additional accessory items, see pages 199-200.

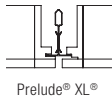
## ACCESSORIES

Axiom® Vector® trim, details, accessories, and infill panels can be found on pgs. 252-253 in this catalog or visit [armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)

Item No.	Description	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Color	Acoustics NRC	Pieces/ Carton
5823	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Black (Matte)	0.75	12

## SUSPENSION SYSTEM

15/16"



Prelude® XL®

## PHYSICAL DATA

### Material

FSC®-certified solid Poplar (yellow or hybrid) (RA-COC-003601)

### Surface Finish

Clear or tinted semigloss coating

### Fire Performance

Solid Poplar Hardwood – Class C ASTM E84 surface burning characteristics. Flame Spread Index 200 or less. Smoke Developed Index 450 or less.

WoodWorks® Open Cell panels, as with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern, or possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device.

Designers and installers are advised to consult a fire-protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present. For more information, visit [armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)

### Application Considerations

Variation among panels may occur due to the natural characteristics of the wood and grain.

### Design Considerations

It is very important that WoodWorks panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F, must be maintained. Exposed, unpainted back of Axiom® trim may be visible when using higher trims on full-size panel installation only.

### Installation Consideration

Do not cut panels.

### Seismic Restraint

WoodWorks Open Cell panels have been engineered, tested, and approved for application in all seismic areas when installed per Armstrong Ceilings installation instructions.

### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight

6623, 6626 – 1.0 lbs/SF  
6624 – 0.625 lbs/SF  
6622, 6625 – 0.5 lbs/SF  
Bulk Packaged

TechLine / 1 877 276 7876  
[armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks)  
(search: woodworks open cell)  
BPCS-5108-319

LEED® is a registered trademark of the U.S. Green Building Council®  
FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C.,  
license code FSC-C007626; Rainforest Alliance Certified™ is a trademark of  
Rainforest Alliance; Revit® is a registered trademark of Autodesk, Inc.; All other  
trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

251

WOODWORKS®

# WOODWORKS® Family Trim and Accessories

## WOODWORKS® VENEER TRIM

Item No. ◆	Description	Dimensions Nominal W x L x H	Color	Pcs/ Ctn.
		(Inches) Custom Sizes Available		
6603W1_ _ _**	WoodWorks™ Concealed Trim (aluminum)	6" x 120"	See below	6
5415W1_ _ _	4" WoodWorks Trim (with FSC®-certified wood substrate)	4 x 96 x 3/4"	See below	6
5419W1_ _ _	6" WoodWorks Trim (with FSC-certified wood substrate)	6 x 96 x 3/4"	See below	4
5659W1_ _ _**	4" WoodWorks Trim (with aluminum substrate)	4" x 120"	See below	6
5660W1_ _ _**	6" Woodworks Trim (with aluminum substrate)	6" x 120"	See below	6
6408_ _ _*	3/4" Edge Banding	3/4" x 300"	See below	1

◆ When specifying or ordering, include the 3-letter color suffix that coordinates with your WoodWorks ceiling (e.g., 6603W1N M.P.)

\* Images™ edge banding coordinates with Natural Variations™ Light Cherry, Dark Cherry, and Maple. Use the Natural Variations colors when ordering.

\*\* FXTBC, FXPSPLICE, FX4SPLICE, included.

## WOODWORKS® VENEER TRIM FINISH SELECTION

Due to printing limitations, shade may vary from actual product.

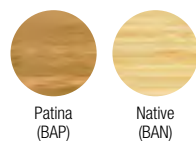
### Natural Variations™ (Real Wood Veneers)



### Constants™ (Real Wood Veneers)



### Bamboo\*\*\*



\*\*\* Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

## SOLID WOOD TRIM FINISHES

Due to printing limitations, shade may vary from actual product.



## SOLID WOOD TRIM

Item No. ◆	Description	Dimensions Nominal W x L x H	Color	Pcs/ Ctn.
		(Inches) Custom Sizes Available		
7146_ _ _	Solid Wood Trim	4 x 120 x 3/4"	See left	Bulk

## AXIOM® TRIM

Color options see page 481. Trim cartons include AXTBC Clips and AXSPLICE Plates.

Item No. ◆◆	Description	Dimensions Nominal W x L x H	Pcs/ Ctn.
		(Inches) Custom Sizes Available	
AX4VESTR_ _ _	4" Axiom® Vector®	120 x 3/4 x 4"	-
AX6VESTR_ _ _	6" Axiom Vector	120 x 3/4 x 6"	-
AX4VEQSI_ _ _	4" Inside Corner Post	3/4 x 3/4 x 4"	-
AX6VEQSI_ _ _	6" Inside Corner Post	3/4 x 3/4 x 6"	-
AX4VEOSCP_ _ _	4" Outside Corner Post	3/4 x 3/4 x 4"	-
AX6VEOSCP_ _ _	6" Outside Corner Post	3/4 x 3/4 x 6"	-
AXTBC	T-Bar Connector Clip	-	10
<b>new</b> 7239***	Adjustable Trim Clip	-	50
AXSPLICE	Splice Plate with Setscrews	-	10

◆◆ When specifying or ordering, include the appropriate 2-letter color suffix.

\*\*\* Specify with WoodWorks™ aluminum substrate trim to be used with panels or planks that drop greater than 3/8" below the grid flange, such as Channeled, Linear, or Grille products.

## AXIOM® TRIM FINISH SELECTION

See Axiom® Trim colors on page 481.

## ACCESSORIES FOR VECTOR INSTALLATIONS

Item No.	Description
442	Hold Down Clip
7425	24" Stabilizer Bar
7445	48" Stabilizer Bar

Border Clip safety clip, and hold down clip (included in carton for 24" x 24" panels; shipped separately for 12" x 48" and 24" x 48")





# WOODWORKS® Family Trim and Accessories

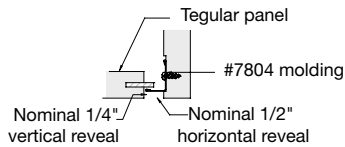
## INSTALLATION ACCESSORIES

Item Number	Description	Dimensions W x L x H (Inches)	Color	Pcs/Ctn	Item Number	Description	Dimensions (Inches)	Color	Pieces/Carton
7805BL**	10' Angle Molding	1-1/2 x 120 x 1-1/2"	Tech Black	30	7891	12-Gauge Hanger Wire	144" Length	-	140
7823BL**	10' Shadow Molding	2 x 120 x 1-1/4 x 3/4"	Tech Black	10	92715A620	Self-tapping Screw	#2 x 3/4" Length	Black	25
7804BL	Angle Molding (recommended with wood trims)	7/8 x 144 x 9/16"	Black	30	SH12	Support Hanger	144" x 24"	-	12
FXTBC	T-Bar Connector Clip	-	-	10	UHDC	Universal Hold-Down Clip	-	-	100
FXVTBC	Vector® T-Bar Connector Clip	-	-	10	FZUHDC	FastShip Universal Hold-Down Clip	-	-	50
FXSPICE	Splice Plate with Setscrews	-	-	10	CHDC	Clear Hold-Down Clip	-	-	50
FX4SPICE	Splice Plate with Setscrews	-	-	10	414	Retention Clip	-	-	100
6459BL	Rigid Attachment Clip	5-1/2" x 1-3/4"	Black	25	FZ414	FastShip Retention Clip	-	-	50
6091	Safety Cable	-	-	50	442	Vector Hold-Down Clip	-	-	50

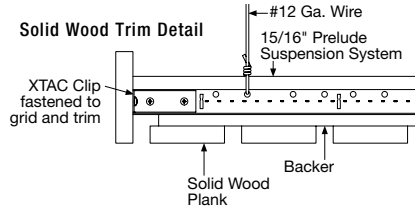
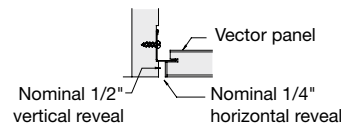
\*\* This color is a special order item with these moldings.

## WOODWORKS® TRIM (WOOD SUBSTRATE) INSTALLATION

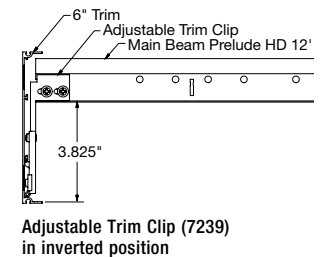
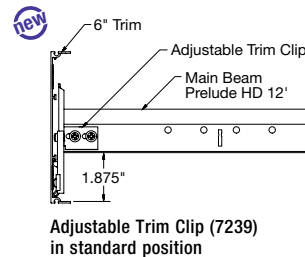
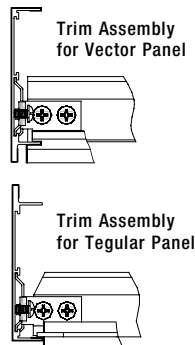
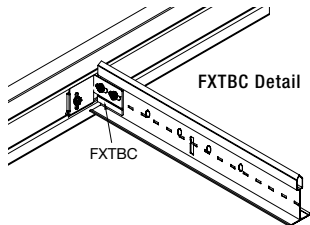
### Trim with Tegular Panel



### Trim with Vector® Panel



## WOODWORKS® TRIM (ALUMINUM SUBSTRATE) INSTALLATION



## INFILL PANELS

Item Number	Description	Dimensions (Inches)	NRC	CAC	Colors	Pieces/Carton
5479	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	0.75	N/A	Beige Matte	12
5823	BioAcoustic Infill Panel	24 x 24 x 5/8"	0.75	N/A	Black Matte	12
8200T10	Fiberglass Infill Panel	24 x 24 x 1"	0.75	N/A	Black Gloss	12
1713/1713BL	School Zone® Fine Fissured™ Square Lay-in Panel	24" x 24"	0.70	35	White or Black	12
2820/2820BK	Calla® Square Lay-in Panel	24" x 24"	0.85	35	White or Black	10
6657	BioAcoustic Infill Panel	11 x 48 x 5/8"	0.80	N/A	Black Matte	12

## INFILL PANEL OPTIONS



1. BioAcoustic™ Infill Panel – Black
2. BioAcoustic™ Infill Panel
3. Fine Fissured™ Square Lay-in panel
4. 1" Fiberglass Infill panel (in polybag)

## CASE STUDY

PROJECT: Miami Cancer Institute  
Baptist Health, South Florida

LOCATION: Miami, FL

ARCHITECT: ZGF Architects  
Toledo, OH

PRODUCT: WoodWorks® Linear Veneered  
Ceiling Panels

### THE CHALLENGE:

The feel of the new Miami Cancer Institute was designed to reflect a warm Mediterranean style. The desire was to create a friendly, hospitality-type feel such as you would find in a fine spa or hotel. Inspired by the connections to nature found in the surrounding landscape, the design team selected natural materials for the interior, creating a comforting environment for patients and their families.

### THE SOLUTION:

Reinforcing the connection to nature, the lobbies and corridors are infused with natural light and feature WoodWorks® Linear Veneered ceiling panels in a Constants™ Cherry finish. The custom 2-foot-by-5-foot wood panels were designed specifically for the cancer institute by the You Inspire™ Solutions Center at Armstrong Ceiling & Wall Solutions. Each of the panels is made up of three different widths of wood planks with a narrow reveal between each plank, creating a unique linear visual that aligns directionally with the corridors.

The WoodWorks® Linear Veneered ceiling panels provide patients and their families with a quieting connection to nature that helps in the healing process while also serving to help with navigation around the building.

### HELPING YOU CREATE THE UNEXPECTED

you inspire™  
solutions center

helping to bring your one-of-a-kind ideas to life

FREE design service  
Pre-construction assistance  
Installation recommendations  
Collaborative design  
Specifications  
Budgeting and planning

1 800 988 2685

[armstrongceilings.com](http://armstrongceilings.com)

# CUSTOM CEILING SYSTEMS

## WOODWORKS® Access™

Flat and Curved Ceiling Systems

you inspire™

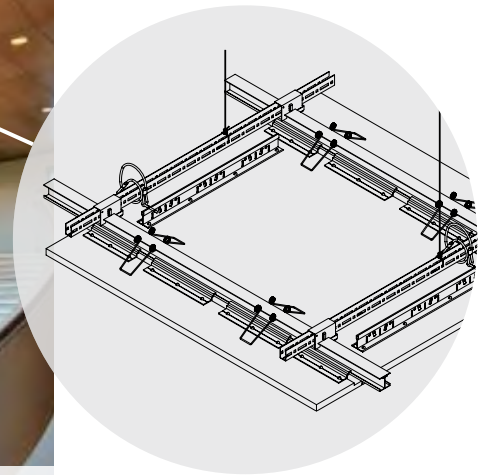
solutions center

helping to bring your one-of-a-kind ideas to life

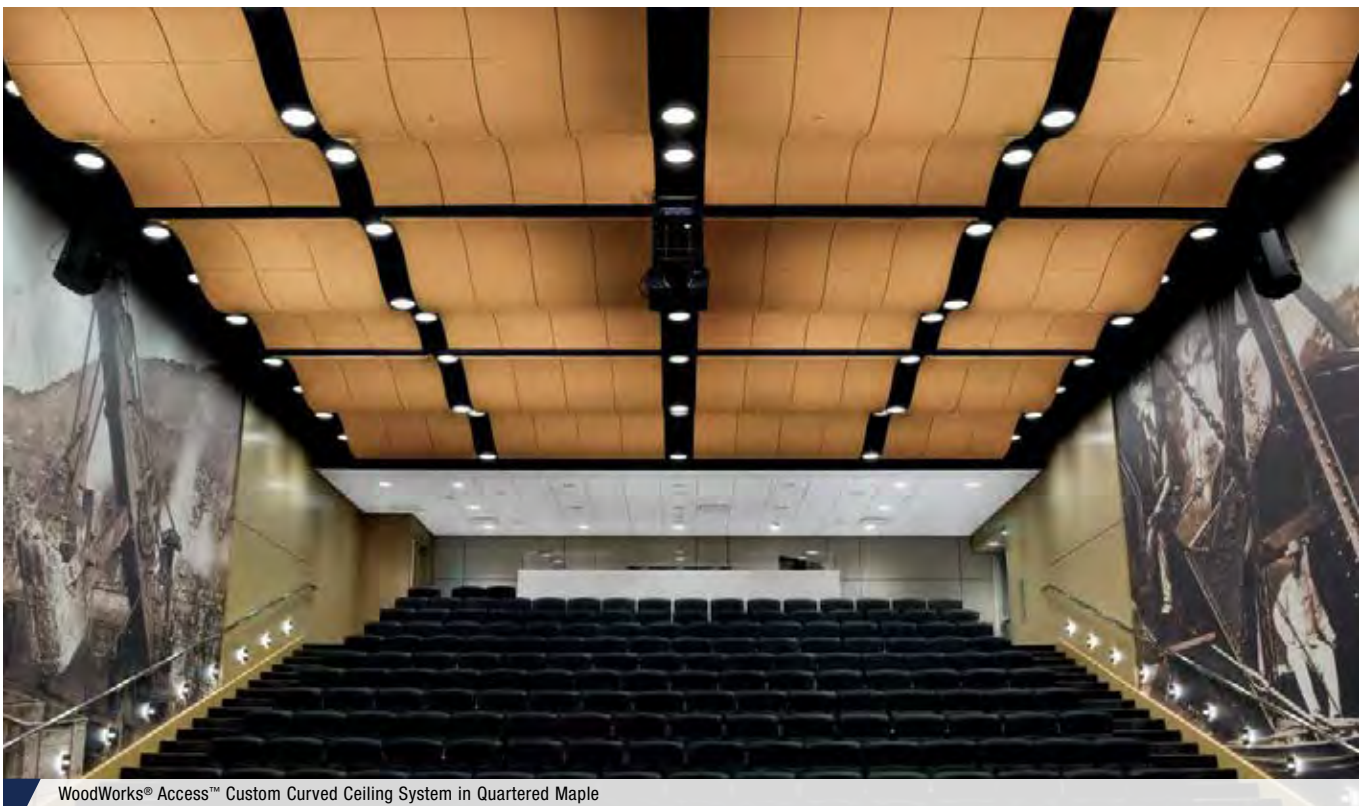


### KEY SELECTION ATTRIBUTES

- Provides full downward accessibility
- Panel options up to 16 SF
- Flat, radial, and curved panels available
- Acoustical options with perforated panels
- Meets requirements for seismic areas



WoodWorks® Access™ Custom Flat Ceiling System in Maple; WoodWorks® Wall System in Maple



WoodWorks® Access™ Custom Curved Ceiling System in Quartered Maple



# CUSTOM CEILING SYSTEMS

## WOODWORKS® Radial

Flat and Curved Ceiling Systems

you inspire™

solutions center

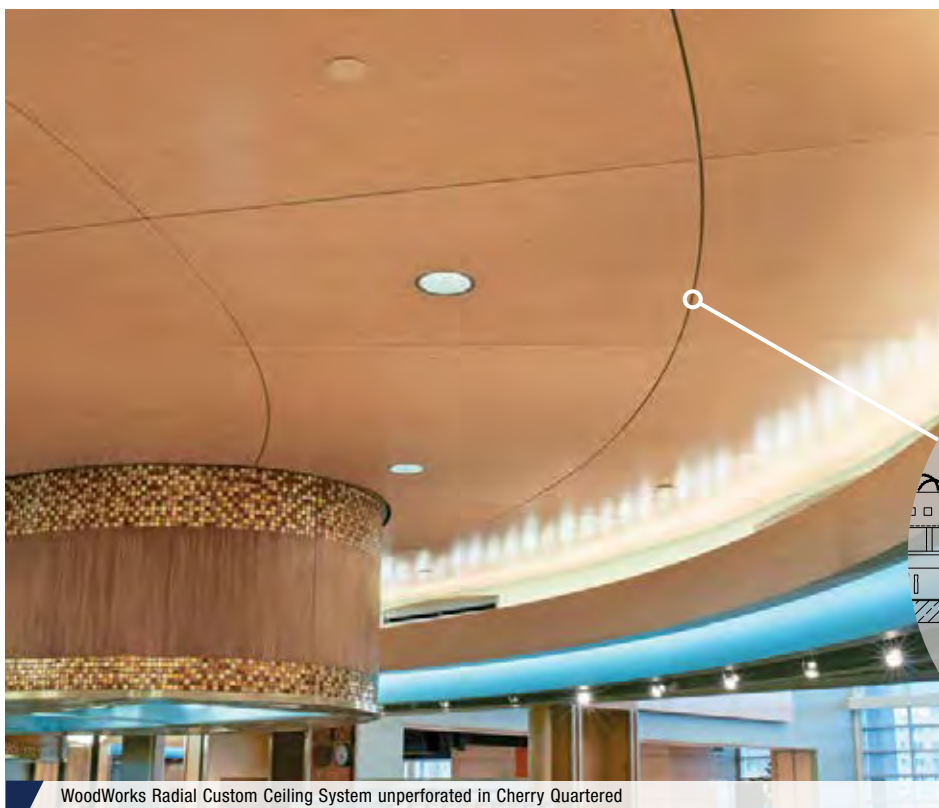
helping to bring your one-of-a-kind ideas to life

### KEY SELECTION ATTRIBUTES

- Variety of trapezoidal sizes, up to 96" length, and up to 48" width
- Perforation options provide NRC 0.40 – 0.65 based on pattern and infill selected (see pages 222-223; 253)
- Engineered and tested for applications in seismic zones

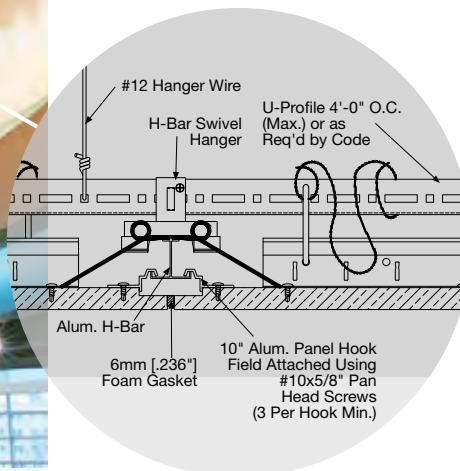


WoodWorks® Radial Custom Ceiling System in Reconstituted Wenge Graduated



WoodWorks Radial Custom Ceiling System unperforated in Cherry Quartered

Due to the non-standard dimensions, finishes, and performance features for custom WoodWorks systems, please visit our web site at [armstrongceilings.com/woodworks](http://armstrongceilings.com/woodworks) or call TechLine at 1 877 276-7876.



WOODWORKS® CUSTOM



WoodWorks® Custom Ceilings and WoodWorks® Custom Walls with custom perforation in custom Cherry finish



WoodWorks® Custom Ceiling System unperforated in White Maple with Clear Satin finish

WOODWORKS® CUSTOM

# CUSTOM CEILING SYSTEMS

## WOODWORKS® Torsion Spring

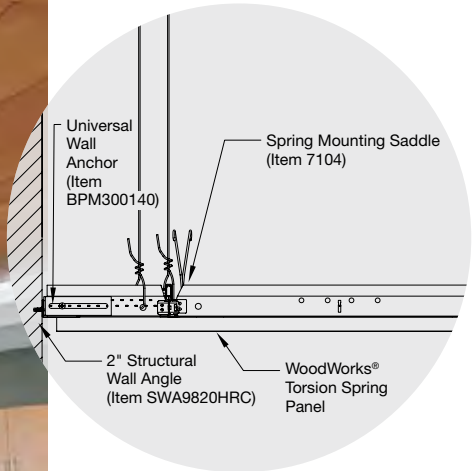
### Ceilings

you inspire™  
solutions center

helping to bring your one-of-a-kind ideas to life

#### KEY SELECTION ATTRIBUTES

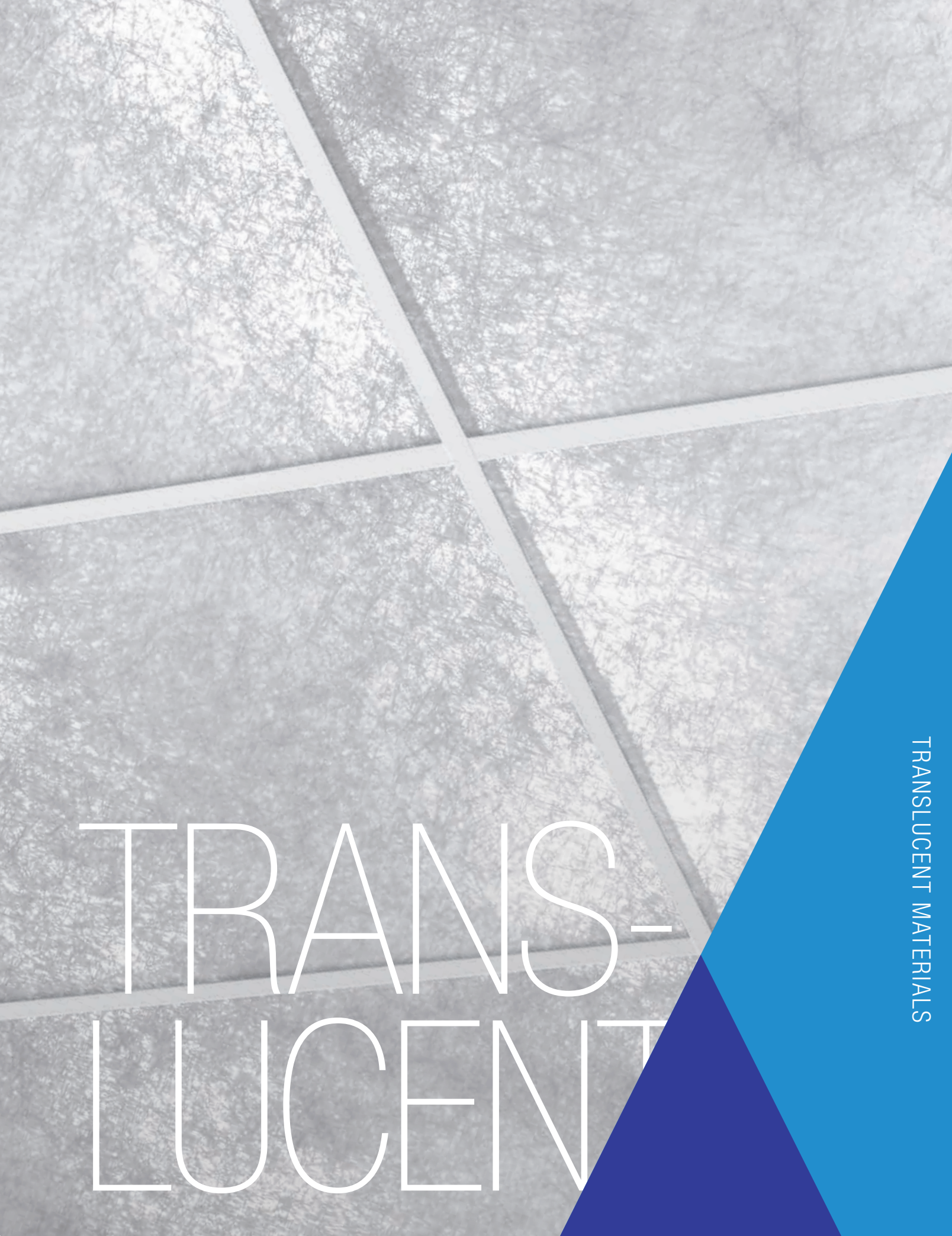
- Monolithic visual in rectangular and radial
- Large-size panel options up to 16SF
- Available in standard and custom WoodWorks® visuals and a variety of perforations for aesthetic and acoustical needs
- All system components available through a single source
- Accessible system, seismic tested and approved



WoodWorks® Torsion Spring in custom finish



WOODWORKS® CUSTOM



# TRANS- LUCENT

TRANSLUCENT MATERIALS

# INFUSIONS® Panels and Sheets

Lay-in  
smooth texture



Infusions® 24" x 24" Lay-in Panels in Crystalline Focus



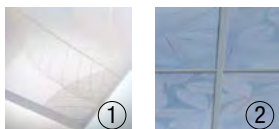
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: infusions

Translucent ceiling panels are available in multiple sizes, colors, and patterns.

## KEY SELECTION ATTRIBUTES

- Dimensions – Splash, Large, and Small Beads create a 3D look with a unique honeycomb core
- Coordinate with Armstrong® Infusions™ Walls and Partitions, Infusions® Blades™ vertical elements, Infusions Shapes and Canopies, SoundScapes® Shapes panels and Blades™ vertical elements, Create!™ ceiling panels, or other interior finishes
- 18" x 18" Infusions Lay-in infill panels available for Metaphors® Coffers; for details, see pages 342-343
- Lay-in panels install quickly and easily in standard 15/16" Prelude® XL® or 9/16" Suprafine® XL® suspension system
- Infusions ceiling systems offer the industry's highest fire performance; panels meet both the Class A and IBC drop-out requirements for fire performance (drop-out tested to withstand 200° temperatures for 30 minutes)
- Can be used in Formations™ Accent Clouds
- 48" x 72" Polycarbonate and 48" x 96" PETG sheets available for use on other areas of a project like desk or bar fronts, dividers or wall art that must coordinate with Armstrong® Infusions® products

## DETAIL



1. Infusions® Lay-in
2. Infusions® Lay-in with 15/16" Prelude® suspension system

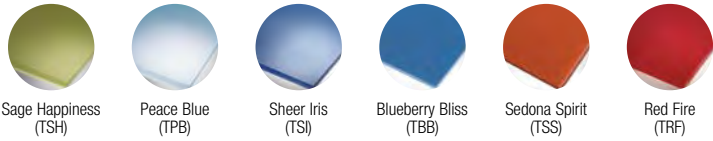
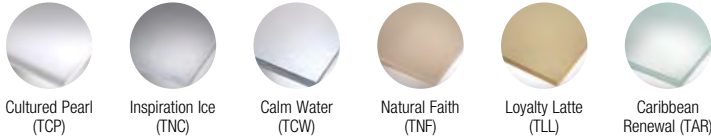
For: Infusions® Blades™ see page 70  
Infusions® Shapes see page 99  
Infusions® Canopies see page 98  
Infusions® Partitions see page 525  
Infusions™ Walls see page 527



# INFUSIONS® Panels and Sheets

Lay-in  
smooth texture

**COLOR SELECTION – SOLIDS** Due to printing limitations, shade may vary from actual product.



**SoundScapes® Coordinating Colors**



Infusions® 24" x 24" lay-in panels in Indigo Surf



Infusions® 24" x 48" lay-in panels in Crystalline Sky



# INFUSIONS® Panels and Sheets

Lay-in  
smooth texture

**COLOR SELECTION – PATTERNS** Due to printing limitations, shade may vary from actual product.

## Goldtones



Spun Copper (TSC)



Crushed Copper (TCC)

## Linens



Natural Linen (TNL)\*†



Blue Linen (TBL)\*†

## Crystallines



Crystalline Silverado (TSV)



Crystalline Focus (TCR)



Crystalline Sky (TSY)

## Tones-on-tones



White Circlets (TWC)



Silver Orbit (TSR)



Indigo Surf (TNS)

## Arbors



Clear Arbor (TCA)



Blue Arbor (TBA)



Red Arbor (TRA)

**COLOR SELECTION – DIMENSIONS PATTERNS†** Due to printing limitations, shade may vary from actual product.



Splash Kiwi (FZTRK)



Splash Reef (FZTRR)



Splash Lagoon (FZTRL)



Splash Plum (FZTRP)



Splash Tangerine (FZTRT)



Beads Large Kiwi (FLTRK)



Beads Large Reef (FLTRR)



Beads Large Lagoon (FLTRL)



Beads Large Plum (FLTRP)



Beads Large Tangerine (FLTRT)



Beads Small Kiwi (FSTRK)



Beads Small Reef (FSTRR)



Beads Small Lagoon (FSTRL)



Beads Small Plum (FSTRP)



Beads Small Tangerine (FSTRT)

NOTES: Dimensions patterns are only available as 12" x 48" and 24" x 24" lay-in ceiling panels.

Direction of linear patterns may change between panel sizes.

\* Color may vary panel-to-panel

† Not available in sheets



Infusions® Lay-in in Natural Linen

# INFUSIONS® Panels and Sheets

Lay-in  
smooth texture

UP TO **40%** RECYCLED CONTENT

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## PANEL SELECTION

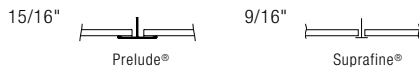
Item No. ◆	Dimensions (Inches)	
<b>INFUSIONS® Lay-in Panels</b>		
5911_ _ _	12 x 48 x 1/8"	
5922_ _ _	24 x 24 x 1/8"	
5912_ _ _	24 x 48 x 1/4"	
5913_ _ _	24 x 72 x 1/4"	
Note: Red Arbor, Blue Arbor, Cultured Pearl, and Inspiration Ice are available in 1/4" thickness only for 12" x 48" and 24" x 24" sizes. For information about 18" x 18" Infusions® Lay-in infill panels for Metaphors® Coffers, see pages 342-343.		
<b>INFUSIONS Lay-in Panels – Dimensions Patterns</b>		
5914_ _ _ _ _	12 x 48 x 0.44"	
5915_ _ _ _ _	24 x 24 x 0.44"	
<b>INFUSIONS Sheets (not used for ceiling applications)</b>		
5976_ _ _	48 x 72 x 1/4"	
5978_ _ _	48 x 96 x 1/4"	

◆ When specifying or ordering, include the appropriate 3- or 5-letter color suffix. (Example: 5911 I C B , 5914 E Z I R K)

## PERFORMANCE

Fire Rating
Class A
Class A
Class A
Class A
Class A
Class A
Class A
Class A
Class A

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Polycarbonate (Dimensions panels – PETG and polycarbonate)

**Surface Finish**  
Smooth

**Fire Performance**  
Infusions® panels have been tested according to NFPA 286 and are equivalent to Class A interior finish as defined by the International Building Code. Designers and Installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present. Contact TechLine at 1 877 276-7876 for specific US and Canadian fire performance data.

**Design Considerations**  
Direction of linear patterns may change between panel sizes. Infusions panels are not approved for exterior application. Natural Linen and Blue Linen colors may vary panel to panel.

**Installation Considerations**  
Do not allow panel edges to get wet. Panels may be cut for borders, perimeter treatments, penetrations, and cutouts. For penetrations such as sprinklers, use an escutcheon plate to hide any rough cut edges. Any fixtures used in or adjacent to field-cut Infusions panels must be independently supported. There is potential for limited natural deflection of panels. See LA-297176 at [armstrongceilings.com/infusions](http://armstrongceilings.com/infusions) for cutting recommendations. Panels can be damaged by exposure to high temperatures. Panel temperature should not be permitted to exceed 100°F. Follow these guidelines for minimum distance from standard light sources.

LAMP TYPE	LABEL WATTAGE	MINIMUM DISTANCE
Halogen FL XL PAR 30	60	14"
Incandescent Bulb	120	15"
Quartz Halogen Work Light	500	23"

Additional light transmission information is available at [armstrongceilings.com/infusions](http://armstrongceilings.com/infusions)

**Warranty**  
One (1) year limited warranty. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Pieces/Carton**  
Items 5911, 5922 – 0.80 lbs/SF; 6 pcs/ctn  
Items 5912, 5913 – 1.63 lbs/SF  
Item 5912 – 3 pcs/ctn  
Item 5913 – 2 pcs/ctn  
Items 5914, 5915 – 2.625 lbs/SF; 4 pcs/ctn  
Item 5976 – 1.63 lbs/SF – Bulk package per order  
Item 5978 – 2.08 lbs/SF – Bulk package per order

# Create Better Spaces with Total Acoustics®, Sustain®, & DESIGNFlex™



**TOTAL ACOUSTICS®**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)

## NRC + CAC = Total Acoustics

Total Acoustics® ceilings have an ideal combination of noise reduction and sound-blocking performance in one panel with a minimum NRC of 0.60 and CAC of 35. Now, whether you're creating a space for quiet concentration, collaboration, or confidentiality, one panel meets the needs for today's flexible spaces. Look for the Total Acoustics® icon on product pages that are part of this portfolio.

EXPOSED STRUCTURE OPEN OFFICE (Used for focus and collaboration)		Continuous Ceiling Suspended 60" Below Deck (100% Coverage)			
		Ultima® High NRC Panels		Calla® Panels	
5,000 SF Exposed Structure (50' x 100'), 15' to deck, drywall with windows on two sides, commercial carpet (8' x 8' work station & RC35)	No Treatment Exposed Structure (0% Coverage)	Total Acoustics	NRC + CAC	Total Acoustics	NRC + CAC
<b>NRC</b>	0.00	0.80		0.85	
<b>CAC</b>	0	35		35	
<b>Total Acoustics</b>	–	<b>BEST</b>		<b>BEST</b>	
<b>Reverberation Time</b>	3.4 sec	0.6 sec		0.6 sec	
<b>RT Improvement</b>	ref	82%		82%	
<b>SPL Reduction</b>	ref	-5 dB		-6 dB	
<b>Privacy Index (60" partition height)</b>	48%	59%		60%	

CLOSED OFFICE USED FOR PRIVACY (14' x 14', drywall, carpet) (RC30)		Continuous Ceiling Suspended 60" Below Deck (100% Coverage)			
		Ultima® Panels		Ultima® High NRC Panels	
Drywall Ceiling Suspended 60" Below deck (100% Coverage)		Total Acoustics	NRC + CAC	Total Acoustics	NRC + CAC
<b>NRC</b>	0.00	0.75		0.80	
<b>CAC</b>	50	35		35	
<b>Total Acoustics</b>	–	<b>BETTER</b>		<b>BEST</b>	
<b>Reverberation Time (RT)</b>	1.3 sec	0.5 sec		0.4 sec	
<b>Privacy Index</b>	98%	98%		98%	

For definitions of acoustical terms, see Pgs. 546-547 in this catalog.



**SUSTAIN®**  
High Performance Sustainable Ceiling Systems

## Clean + Simple = Sustain®

(Free of chemicals of concern per Living Building Challenge Red List) (Easy to find) (Meet today's most stringent industry sustainability standards)

Sustain® ceiling systems contribute to better spaces. Here's how:

- Are free of Red List Chemicals per the Living Building Challenge 3.0 (including no added formaldehyde)
- Have Health Product Declarations (HPDs) which tell you what's in the products
- Have Environmental Product Declarations (EPDs) which tell you the impact of the products on the environment
- Have Declare® labels (easy reference "nutrition labels")

- Meet California Department of Public Health (CDPH) low emissions standards

Contribute to:

- Living Building Challenge Standards (see details, Pgs. 542-543)
- WELL Building Standard (see details, Pgs. 540-541)
- LEED v4 (including New Materials and Resources credits) (see details, Pgs. 538-539)

Look for the Sustain® icon on product pages that are part of this portfolio.

## DESIGNFlex™ Ceiling Systems

Reinvent your ceiling with panels in shapes and sizes in your choice of colors, ready to ship in 3 weeks\*. Includes Calla®, Lyra®, Optima®, Ultima®, and MetalWorks™. Visit our online pattern gallery at: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery) to see designs of patterns, palettes, and capabilities today! Look for the DESIGNFlex™ icon on product pages that are part of this portfolio.

\*MetalWorks™ Shapes panels ship in 4-5 weeks depending on color selection



**DESIGNFlex™**  
A New World of Choice for Ceiling Systems



# MINERAL FIBERGLASS

MINERAL FIBER / FIBERGLASS

# MINERAL FIBER AND FIBERGLASS – STANDARD

## At-a-Glance



Look for this icon indicating new products or new additions to product families. Visit our web site for details.

### STANDARD MINERAL FIBER CEILING

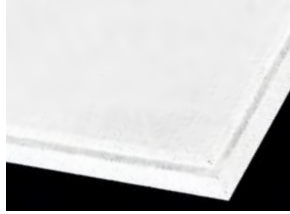
Product information listed pertains to product families, and may not apply to individual items. Consult product details at [armstrongceilings.com/commercial](http://armstrongceilings.com/commercial) before specifying/purchasing.



**ARMATUFF®**



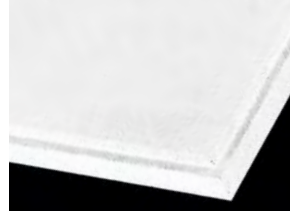
Pg. 271



**CALLA®**



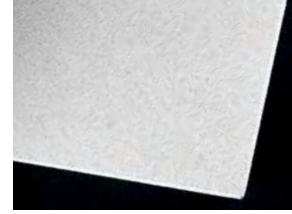
Pgs. 274-279



**CALLA® Vector  
CALLA® High-NRC  
CALLA® High-CAC**



Pgs. 280-281F



**CANYON®**



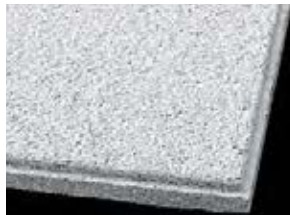
Pgs. 282-283



**CERAMAGUARD®  
CERAMAGUARD® Fine Fissured™**



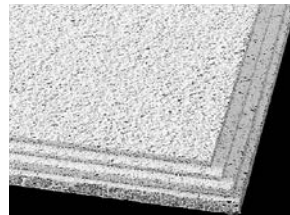
Pgs. 284-285



**CIRRUS®  
CIRRUS® High-NRC  
CIRRUS® Second Look®**



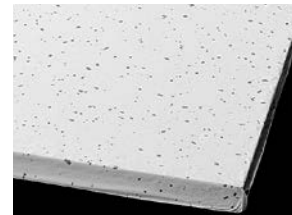
Pgs. 286-291, 294-295



**CIRRUS® Profiles**



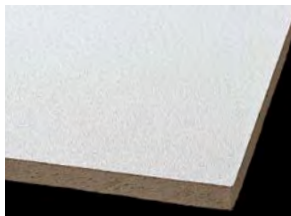
Pgs. 292-293



**CLEAN ROOM™ FL**



Pgs. 298-299



**CLEAN ROOM™ VL**



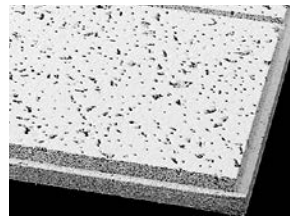
Pgs. 298-299



**VL**



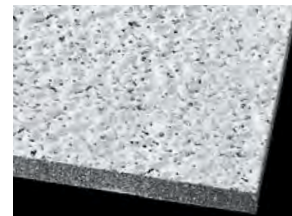
Pgs. 298-299



**CORTEGA®  
CORTEGA® Second Look®**



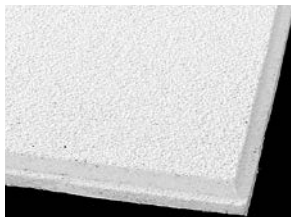
Pgs. 300-301



**DESIGNER™**



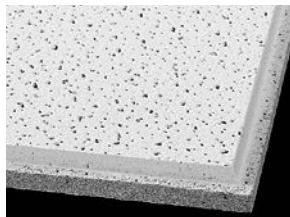
Pg. 305



**DUNE™  
DUNE™ Second Look®**



Pgs. 306-309



**FINE FISSURED™  
FINE FISSURED™ Second Look®**



Pgs. 310-320



**FINE FISSURED™ High-NRC**



Pgs. 312-319

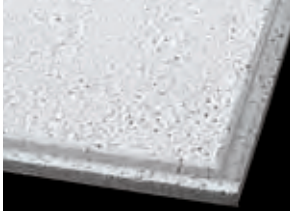


**FISSURED™**



Pg. 321

## STANDARD MINERAL FIBER CEILING (continued)



**GEORGIAN™**  
**GEORGIAN™ High Washability**



Pgs. 322-323



**KITCHEN ZONE™**



Pgs. 326-327



**MESA™**  
**MESA™ Second Look® II**



Pgs. 340-341



**School Zone® FINE FISSURED™**  
**School Zone® GEORGIAN™**



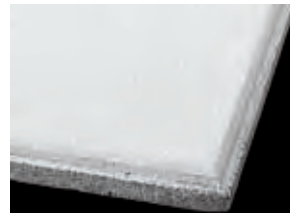
Pgs. 370-371



**TUNDRA®**



Pgs. 374-375



**ULTIMA®**  
**ULTIMA® with AirGuard™ Coating**



Pgs. 376-383



**ULTIMA® High NRC**



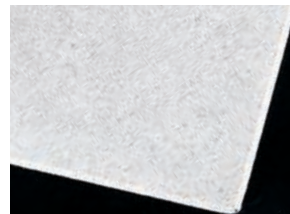
Pgs. 376-383



**ULTIMA® Vector®**



Pgs. 384-385



**ULTIMA® Health Zone™**



Pgs. 386-389

## FIBERGLASS



**LYRA® with Plant-Based Binder**  
**LYRA® High CAC with Plant-Based Binder**



Pgs. 330-335



**LYRA® Vector**



Pgs. 336-337



**LYRA® Concealed**



Pgs. 338-339

## ICON KEY

Icons are used throughout the catalog to help you quickly identify key product attributes.

### High Acoustics

#### Total Acoustics®

**NRC + CAC** Product has both NRC of 0.60 or greater and CAC of 35 or higher.

**NRC** Product has NRC (Noise Reduction Coefficient) 0.70 or greater.

**CAC** Product has CAC (Ceiling Attenuation Class) of 35 or higher.

**AC** Product has AC (Articulation Class) 170 or greater.

### Fire Performance

**Fire Guard™/Fire Resistive** products tested in specific UL floor/ceiling or roof/ceiling design assemblies.

### Seismic

**DEF** Category D, E & F

### High Light Reflectance

**Light Reflectance** average of 0.83 or greater. White only.

### BioBlock®

**BioBlock** Resists growth of mold and mildew. Panels with BioBlock Plus performance also resist odor and stain-causing bacterial growth.

### Humidity/Sag Resistance

#### HumiGuard® Max

**HumiGuard Max** Maximum humidity resistance, including outdoor applications.

#### HumiGuard Plus

**HumiGuard Plus** Superior sag resistance, recommended for areas subject to high humidity, up to standing water and outdoor applications.

#### Standard

Standard performance, adequate where the building is enclosed and the HVAC is continually functioning.

### High Durability

#### Water-Repellent

**Water-Repellent** Product resists water for 15 minutes allowing proper cleaning for infection control.

### Washability

**Washability** Offers superior wash resistance without compromising panel finish integrity, using a washability tester as per ASTM D4828.

### Scrubability

**Scrubability** Withstands up to 150 scrub cycles using a scrubability tester as per ASTM D2486.

### Impact Resistance

**Impact Resistance** Excellent resistance to surface impact as per striking ball test.

### Scratch Resistance

**Scratch Resistance** Excellent resistance to surface scratching, scuffing or chipping as per Hess Rake Test.

### Soil Resistance

**Soil Resistance** Excellent resistance to dirt and/or grease; for lasting value and performance as per simulated air diffuser soiling test.

### Plenum Access

**Plenum Access** Downward access for panels minimizes panel damage.

### Color Availability

**Color Availability** Available in color.

### Sustainability

**Sustainability** Product is part of Sustain® Portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain® colors only.

**Sustainability** Product has Ceiling-2-Ceiling™ post-consumer recycled content from reclaimed ceilings.

**Sustainability** Product is manufactured with a plant-based binder.



**Sustainability** Product is treated with AirGuard™ coating.



**Sustainability** Product is recyclable through the Armstrong Ceilings Recycling Program.

### Relative Pricing

(Mineral Fiber / Fiberglass)

**Relative Pricing** Installed cost guidelines. Varies by geography. Contact your local representative or distributor for specific pricing in your area. 1 \$ = lowest pricing 4 \$ = highest

# MINERAL FIBER AND FIBERGLASS

## At-a-Glance

you inspire™  
solutions center

helping to bring your one-of-a-kind ideas to life

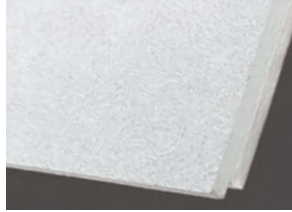
### STANDARD FIBERGLASS CEILING



OPTIMA®  
OPTIMA® with Plant-Based Binder



Pgs. 344-353



OPTIMA® Vector®  
OPTIMA® Vector® with Plant-Based Binder



Pgs. 354-355



OPTIMA® Concealed



Pgs. 356-357



OPTIMA® Health Zone™



Pgs. 358-361



PAINTED NUBBY™



Pgs. 364-365



PEBBLE™



Pgs. 366-367



RANDOM FISSURED™



Pg. 368



SHASTA®



Pg. 369



OPTIMA® Capz™  
SPECTRA™ Capz™



Pgs. 120-121

(featured in Direct-Attach Panels)

### CUSTOM AND NON-STANDARD OPTIONS



ALTITUDES® Torsion Spring



Pgs. 272-273



OPTIMA® Radial



Pgs. 362-363

### COFFERS



METAPHORS®



Pgs. 342-343



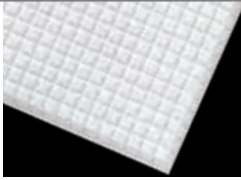
# MINERAL FIBER CEILINGS – DESIGN OPTIONS

## At-a-Glance

you inspire™  
solutions center

helping to bring your one-of-a-kind ideas to life

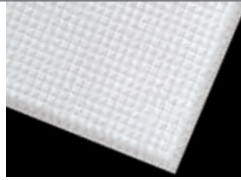
### GEOMETRIC DESIGNS



GRAPHIS® Finetex™  
Cubic



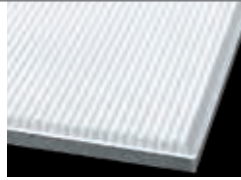
Pgs. 324-325



GRAPHIS® Finetex™  
NeoCubic™



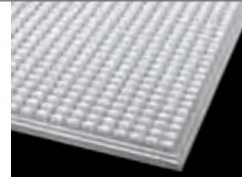
Pgs. 324-325



GRAPHIS® Finetex™  
Wrapped Linear™



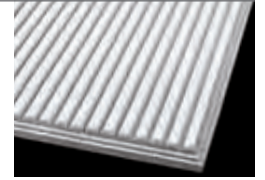
Pgs. 324-325



GRAPHIS® Rustex™  
Cubic Beveled



Pgs. 324-325



GRAPHIS® Rustex™  
Linear Beveled



Pgs. 324-325

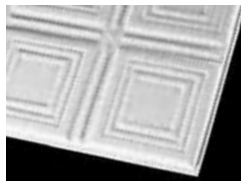
### TIN LOOKS



TINCRAFT™ Circles  
with Faux Coat Finish



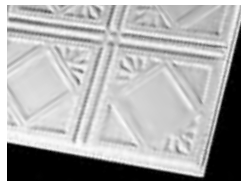
Pgs. 372-373



TINCRAFT™ Squares



Pgs. 372-373



TINCRAFT™ Triangles



Pgs. 372-373

### PANELED LOOK

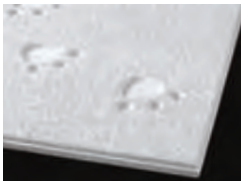


LEDGES®



Pgs. 328-329

### ETCHED DESIGNS



CIRRUS® Themes™ Critters™



Pgs. 296-297



CIRRUS® Themes™ Leaves™



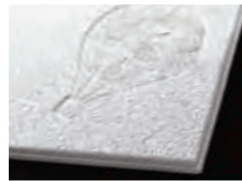
Pgs. 296-297



CIRRUS® Themes™ Stars™



Pgs. 296-297



CIRRUS® Themes™ Things That Fly™



Pgs. 296-297



CIRRUS® Themes™ Under the Sea™



Pgs. 296-297

### SCORED DESIGNS



Second Look® I – CIRRUS®, CORTEGA®,  
DUNE™, and FINE FISSURED™

Pgs. 294-295, 300-301, 309, 320



Second Look® II – CIRRUS®, CORTEGA®,  
DUNE™, FINE FISSURED™, and MESA™

Pgs. 294-295, 300-301, 309, 320, 340, 341



Second Look® III – CIRRUS®, FINE FISSURED™

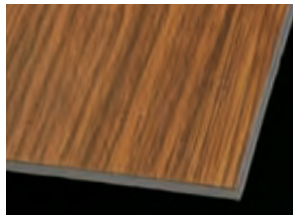
Pgs. 294-295, 320

# MINERAL FIBER CEILINGS – PRINTED IMAGES & PAINTED COLORS

## At-a-Glance

### CREATE!™ PRINTED IMAGES

#### WOOD LOOKS

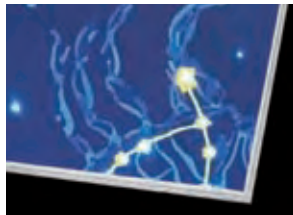


ULTIMA® Health Zone™ Create!™



Pgs. 302-304

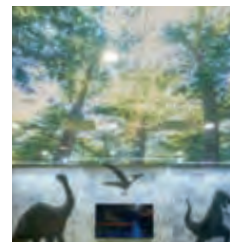
#### PRINTED IMAGES



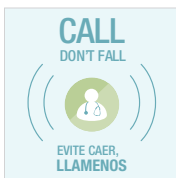
ULTIMA® Create!™, ULTIMA Health Zone™ Create!™ and OPTIMA® Create!™



Pgs. 302-304



#### PRINTED MESSAGES



See our 12 options or provide your own art. See [armstrongceilings.com/create](http://armstrongceilings.com/create).

### PAINTED COLORS

#### INTEGRATED COLOR FOR PANELS, SUSPENSION SYSTEMS, AND TRIM

You can specify whatever color you want, and it can be integrated across panels, suspension systems, and trim.



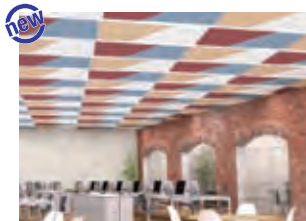
NOTE: Replacement panels may vary slightly in color due to material variations over time. Product could have slight color variation from run to run; adequate attic stock should be ordered.

Colorations® colors are now Sustain colors for mineral fiber panels.



#### DESIGNFLEX™ MINERAL FIBER & FIBERGLASS CEILINGS (Featured in a separate section of this catalog. Pgs. 128-161)

Choose whatever color you want – for panels, suspension, and trims – with DESIGNFlex™ Ceiling Systems!



CALLA® Shapes for DesignFlex™



Pgs. 134-137



LYRA® Shapes for DesignFlex™



Pgs. 138-141



Available in any color!

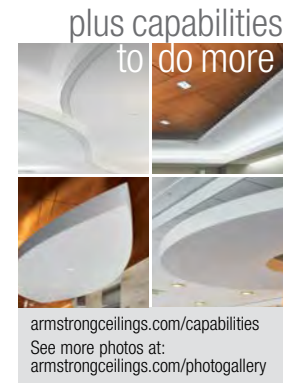


# ACOUSTIBuilt™

Seamless Acoustical Ceiling System  
fine texture



ACOUSTIBuilt™ Seamless Acoustical Ceiling System



New seamless acoustical ceiling system offering monolithic visual and Total Acoustics® performance.

## KEY SELECTION ATTRIBUTES

- Look of drywall in a seamless acoustical ceiling
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panel options:  
NRC + CAC = Total Acoustics Performance
- Finished ACOUSTIBuilt™ panels are part of the Sustain® portfolio and meet the most stringent sustainability compliance standards today
- Smooth non-directional, monolithic, drywall-like visual
- Installed system achieves acoustical performance of up to NRC (0.70) and CAC (48)
- Quick, easy panel installation using Armstrong® Drywall Grid
- Similar installation and finishing methods to drywall ceilings
- Easier to install than acoustical plaster at a lower cost
- Can be installed with most any drywall compatible light fixture including those fixtures from our partners:
  - Axis
  - USAI
  - XAL
  - Price

## TYPICAL APPLICATIONS

- Offices
- Lobbies
- Education
- Exposed Structure
- Retail
- Hospitality

## FINE TEXTURE FINISH FOR ACOUSTIBuilt™ PANELS



White  
(WH)

**new** **ACOUSTIBuilt™**  
Seamless Acoustical Ceiling System  
fine texture

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems



UP TO **75%** RECYCLED CONTENT

**LEED**®

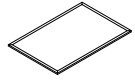
- energy management
- construction waste to right
- regional materials
- design for flexibility
- under EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LOCATION DEPENDENT

**VISUAL SELECTION**

Edge Profile	Item No.	Dimensions (Inches)
7/8" Tapered Edge	<b>2604</b>	48 x 72 x 7/8"



**PERFORMANCE SELECTION** Dots represent high level of performance (• panel and grid).

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Scratch	Soil	Recycled Content	Recycle Program	10-Yr Warranty
NRC	CAC												
0.80*	46	<b>BEST</b>	Class A	0.87**	•	•	•	N/A	N/A	N/A	•	N/A	•

*Note: Durability includes Wash, Scratch, and Soil.*

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

\* Unfinished ACOUSTIBuilt™ Panels are UL® classified as an 0.80 NRC. Following the installation instructions, the field finished system performance is expected to be up to a 0.70 NRC.

\*\* White Fine Texture Finish panel performance following the installation instructions.

**SUSPENSION SYSTEMS – Order Separately**

Item No.	Description	Required for Install
<b>HD8906</b>	12' HD Drywall Main Beam	Yes
<b>XL8945P</b>	4' Drywall Cross Tee	Based on layout
<b>XL8965</b>	6' Drywall Cross Tee	Based on layout
<b>KAM</b>	Ceiling to wall trim (if necessary)	Based on layout

**ACCESSORIES AND PERIMETER TRIMS – Order Separately**

Item No.	Description	Required for Install
<b>2605WH</b>	Fine Texture Finish for ACOUSTIBuilt™ Panels	For every 10 panels (240 SF) - order 1 pail (4 gal.)
<b>2119</b>	Grip-Plate® Washers for ACOUSTIBuilt™ Panels (1-1/4" diameter)	For every 10 panels (240 SF) - order 1 bag (250 pcs)
<b>AX1PC_STR</b> <b>AX1PC_CUR</b>	Axiom® One-Piece Drywall Trim available for 4" and 6" heights - straight or curved	Based on layout
<b>AX_STR</b> <b>AX_CUR</b>	Axiom® Classic available for 2"-16" heights (2" increments) - straight or curved	Based on layout
<b>AXBTASTR</b> <b>AXBTACUR</b>	Axiom® Bottom Trim for ACOUSTIBuilt™ - straight or curved	Required for Axiom Classic Trim, Axiom Transitions Trim, and Axiom Light Covers

**STANDARD ACCESSORIES BY OTHERS – Order Separately**

Item No.	Description	Required for Install
<b>Screws</b>	# 6 x 1-1/4" fine thread, corrosion resistant drywall screws	Yes
<b>Setting-Type Compound</b>	Drywall joint compound	Yes

Item No.	Description	Required for Install
<b>Drying-Type Compound</b>	Premixed ultra light weight drywall joint compound	Yes
<b>Tape</b>	Self-adhesive mesh drywall joint tape	Yes
<b>Hanger Wires</b>	12 gauge hanger wires	-



MINERAL FIBER



# ACOUSTIBuilt™

Seamless Acoustical Ceiling System  
fine texture

Declare™  
Living Building  
Challenge Compliant

SUSTAIN™  
High Performance  
Sustainable  
Ceiling Systems



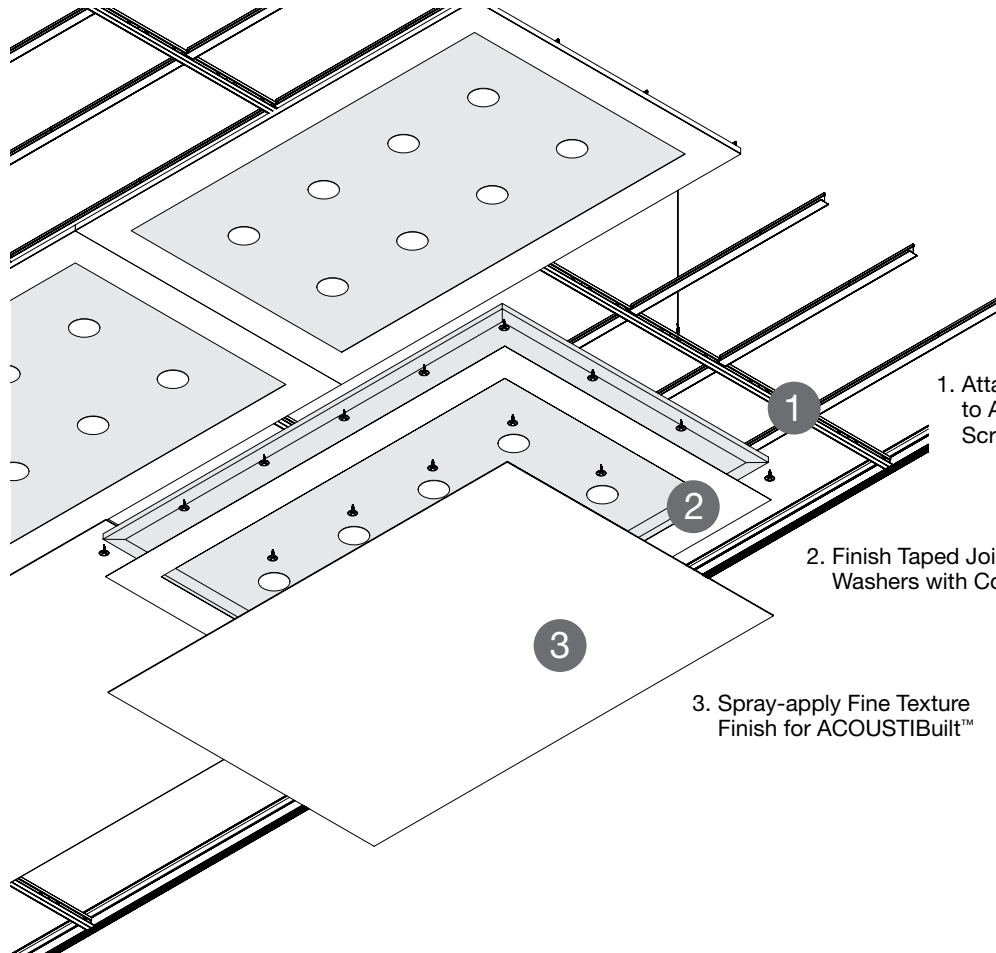
UP TO 75% RECYCLED CONTENT

LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	under EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----------	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

## ASSEMBLY AND INSTALLATION OVERVIEW



1. Attach ACOUSTIBuilt™ Panels to Armstrong® Drywall Grid with Screws and Grip-Plate® Washers

2. Finish Taped Joints and Washers with Compound

3. Spray-apply Fine Texture Finish for ACOUSTIBuilt™



## PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

### ASTM E1264 Classification

Type IV, Form 2, Pattern G  
Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Panels with Fine Texture Finish offer BioBlock® performance and resist the growth of mold and mildew.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### VOC Emissions

GREENGUARD Gold Certified

Third-party certified compliant with California Department of Public Health CDPH/EHLB Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### Design and Lighting Considerations

ACOUSTIBuilt™ is intended for spaces desiring a Level 4 equivalent drywall finish. Critical lighting conditions such as grazing or side light are important to consider while specifying as they can accentuate any imperfections or visible joints.

Lighting and diffuser fixtures must be able to accommodate 7/8" thick panels. Contact the lighting and diffuser manufacturers for recommended fixture use and integration. ACOUSTIBuilt™ is a non-accessible ceiling. Access panels can be integrated as needed following standard installation practices. Refer to access panel manufacturer to verify compatibility with 7/8" thick panels.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



### Acoustical Considerations

Unfinished ACOUSTIBuilt™ panels are UL® classified as an 0.80 NRC. Following the installation instructions, joint compound is field applied to at least 30% of the system before Fine Texture Finish is spray applied. Depending on the layout of the room and fixtures, the expected system performance is up to a 0.70 NRC.

Excessive integrations and/or small enclosed spaces where the ceiling is more spackle than open area will result in degradation of sound absorption. ACOUSTIBuilt™ panels absorb the most sound when installed as full panels. Plan the layout to minimize panel joints and fixture integrations which cover the surface of the ceiling.

### Insulation Value

R Factor – 2.2 (BTU Units)  
R Factor – 0.39 (Watts Units)

### 10-Year Panel Warranty

Details at [armstrongceilings.com/acoustibuilt](http://armstrongceilings.com/acoustibuilt)

### Weight; Square Feet/Carton

2604 – 1.1lbs/SF; 240 SF/ctn

### Minimum Order Quantity

1 carton (10pcs)

LEED® is a registered trademark of the U.S. Green Building Council.  
Declare™ is a service mark of The International Living Future Institute.  
Grip-Plate® is a trademark of Rodenhouse, Inc.  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates.  
© 2019 AWI Licensing LLC Printed in the United States of America

TechLine / 1 877 276-7876  
[armstrongceilings.com/acoustibuilt](http://armstrongceilings.com/acoustibuilt)

BPCS-5940-519

**Armstrong®** 270C  
CEILING & WALL SOLUTIONS

MINERAL FIBER



MINERAL FIBER

270D

TechLine 877 276-7876  
[armstrongceilings.com/acoustibuilt](http://armstrongceilings.com/acoustibuilt)



# ARMATUFF®

Square Lay-in  
coarse texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **40%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED** (Location Dependent)

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- lowbased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics



Armatuff® panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

A coarse-textured visual strong enough to withstand impact from non-deliberate contact.

### KEY SELECTION ATTRIBUTES

- Durable
  - Impact-resistant
  - Scratch-resistant
- Can be installed before building is enclosed
- 30-Year Limited System Warranty against visible sag, mold, and mildew

### TYPICAL APPLICATIONS

- Corridors
- Locker rooms
- Auditoriums
- Gymnasiums
- Cafeteriums/multipurpose rooms

Armatuff® damage-resistant panels will withstand impact from non-deliberate contact with volleyballs and basketballs normally found in gymnasium activities. The Retention Clips allow the panels to deflect slightly, absorbing the force of the impact, while still providing a mechanism to prevent the panels from being dislodged from the suspension system.

### COLOR



## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
<b>ARMATUFF®</b>			
15/16" Square Lay-in	1	<b>861</b>	24 x 24 x 3/4"
	1	<b>860</b>	24 x 48 x 3/4"
<b>Size Capabilities</b>			<b>Width</b> <b>Length</b>
15/16" Square Lay-in	<b>Made-to-Order Sizes (4-6 Wks)</b>	<b>3/4" Thick</b>	
		6" - 45"	12" - 60"

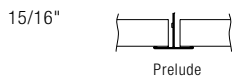
<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

## PERFORMANCE SELECTION

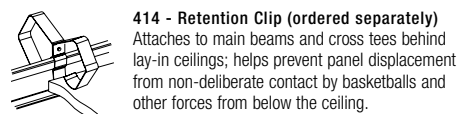
Dots represent high level of performance.

UL Classified Acoustics	NRC + CAC	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Impact	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
UL					Bio-Block	Humi-Guard+						
0.50	33	-	Class A	0.87	•	•	•	•	•	Std	•	•
0.50	35	-	Class A	0.87	•	•	•	•	•	Std	•	•
N/A	N/A	-	Class A	0.87	•	•	•	•	•	Std	•	•

## SUSPENSION SYSTEMS



## ACCESSORIES



## PHYSICAL DATA

**Material**  
Wet-formed high-density mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. (UL labeled)

**ASTM E1264 Classification**  
Type III, Form 2, Pattern C E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for

areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.



### Insulation Value

R Factor - 1.7 (BTU units)  
R Factor - 0.30 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Square Feet/Carton

860 - 1.13 lbs/SF; 64 SF/ctn  
861 - 1.23 lbs/SF; 64 SF/ctn

### Minimum Order Quantity

1 carton, excludes made-to-order panels

### Metric Items Available

861M, 860M - Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

**TechLine / 1 877 276-7876**  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: armatuff)  
BPCS-3041-718

LEED® is a registered trademark of the U.S. Green Building Council  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

271



MINERAL FIBER

# ALTITUDES® Torsion Spring

Custom Concealed Ceiling System

smooth texture



Altitudes® Torsion Spring In White



A ceiling system with a monolithic look from sag-resistant, large custom-size panels.

## KEY SELECTION ATTRIBUTES

- Easily installs with standard Prelude® 15/16" suspension system
- Monolithic look with sag-resistant, large size panels
- Sizes up to 48" x 96" with or without upturns
- Shaped/curved panels available\*
- Excellent acoustical performance – NRC (0.85)
- Wide variety of color options available
- Smooth, clean, durable finish
- Downward accessible with tool
- Energy-saving high light-reflective finish (White)
- Non-directional visual

\* Two opposite sides of panel must be straight

## COLOR SELECTION



White  
(WH)

## CUSTOM FINISHES

Due to printing limitations, shade may vary from actual product.



Available in  
any color!

## DETAILS





# ALTITUDES® Torsion Spring

## Custom Concealed Ceiling System

smooth texture

UP TO **35%** RECYCLED CONTENT

LEED®

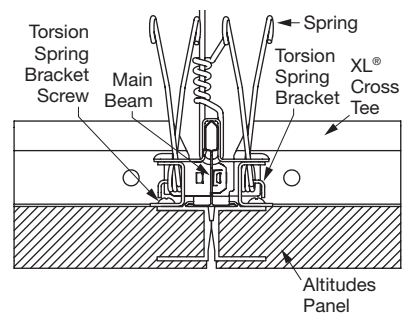
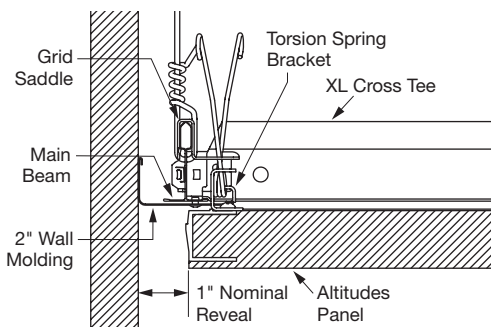
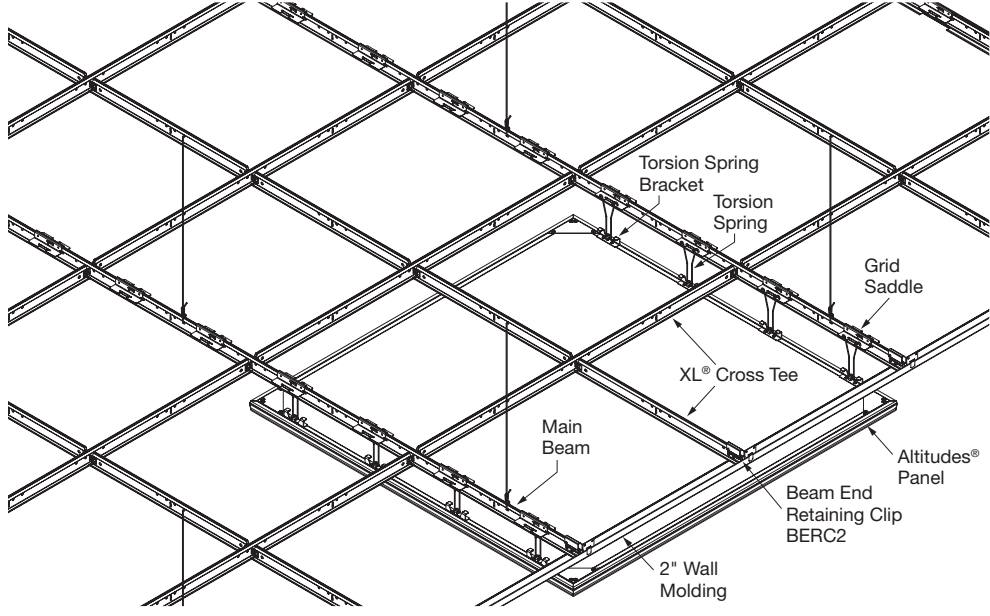
- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

\$\$\$

### INSTALLATION DETAILS



### PHYSICAL DATA

**Material**  
Aluminum framed 6-7 pcf fiberglass and 16-20 pcf impact-resistant molded fiberglass with polypropylene based vapor barrier

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
Class A per IBC. Flame Spread Index 25 or less and Smoke Developed Index 50 or less when tested in accordance with ASTM E84 (painted, face only).

CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less and Smoke Developed Index of 50 or less (painted, face only).

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**Recycled Content**  
35% recycled content with minimum 9% post-consumer content.

**Design Consideration**  
Shape panels are available, however, the panel must have two straight sides opposite each other. Other sides may be curved.

**Installation Considerations**  
Clean, white gloves should be worn when installing panels to keep them free from dust or soiling.

Approximately 7" of clearance is needed to accommodate this system.

**Design Support**  
Project management assistance is available by calling TechLine at 1 877 276-7876.

**Seismic Restraint**  
System has been designed, tested, and approved. See full installation instructions for seismic requirements.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
1.25 lbs/SF; Bulk crated

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: altitudes)  
BPCS-4786-718

LEED® is a registered trademark of the U.S. Green Building Council  
All other trademarks used herein are the property of AWI Licensing LLC  
and/or its affiliates © 2018 AWI Licensing LLC  
Printed in the United States of America



NON-STANDARD FIBERGLASS

**CALLA®**  
Square Lay-in  
smooth texture



**DESIGNFlex™**  
CEILING SYSTEMS



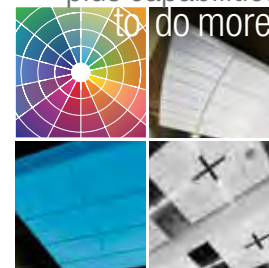
See Calla® Shapes Pages 134-137

**Personalize Your Design!**

Mix and match different sizes, shapes, colors and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



plus capabilities  
to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

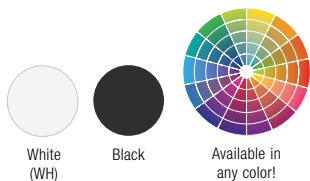
Calla® Square Lay-in panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

The smoothest finish mineral fiber ceiling available with Total Acoustics® performance – excellent noise reduction and sound blocking in one product.

**KEY SELECTION ATTRIBUTES**

- DESIGNFlex™** options include shapes, made-to-order sizes, and colors available to ship in 3 weeks
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance™
- Calla® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Excellent combination of acoustical performance; NRC (up to 0.90), and CAC (35)
- USDA-Certified Biobased Product – 59%
- Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Product can be recycled through the Armstrong Ceilings Recycling Program
- Compatible with the TechZone® Ceiling Systems
- 30-Year Limited System Warranty against visible sag, mold, and mildew

**COLORS AVAILABLE** Due to printing limitations, shade may vary from actual product.



**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 275.)



Calla® Square Lay-in

**CALLA®**  
Square Lay-in  
smooth texture

*Now in  
Shapes!*

**GREENGUARD**  
Gold Certified  
(details below)



**Declare™**  
Living Building  
Challenge Compliant

**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems

UP TO **81%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®  
energy management  
construction waste mgmt  
regional materials  
design for flexibility  
EPD  
recyclable/extended producer resp.  
biobased materials  
recycled content  
sourcing of raw materials  
material ingredient reporting  
low emitting materials

LOCATION DEPENDENT

**VISUAL SELECTION**

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)
<b>CALLA® Square Lay-in</b>			
15/16" Square Lay-in	1	<b>2820</b>	24 x 24 x 1" □
	1	<b>2820BK</b>	24 x 24 x 1" □
	1	<b>2821</b>	24 x 48 x 1" □
	1	<b>2854</b>	30 x 30 x 1" □
	1	<b>2857</b>	24 x 60 x 1" □
	1	<b>2864</b>	24 x 72 x 1" □
<b>CALLA® Size Capabilities</b>	<b>Width</b>	<b>Length</b>	
15/16" Square Lay-in	<b>1 CTN MIN</b> <b>Made-to-Order Sizes &amp; Colors (3 Wks)</b>	<b>1" Thick</b>	
		4" - 11-1/2"	12" - 72"
		12" - 30"	4" - 72"
		30-1/2" - 48"	4" - 24"

**PERFORMANCE SELECTION**

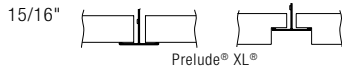
Dots represent high level of performance.

\$\$\$

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	NRC + CAC	AC	Class	(White Only)	Bio-Block	Humi-Guard+								
0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	N/A	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

**SUSPENSION SYSTEMS**



**PHYSICAL DATA**

**Material**  
Wet-formed mineral fiber with acoustically transparent membrane

**Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type IV, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Acoustical Performance**  
CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail. NRC test conducted using white panels. Painted panels may experience a slight reduction in NRC due to the color painting process.



**High Recycled Content**  
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
R Factor - 2.9 (BTU units)  
R Factor - 0.445 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
2844 - 1.7 lbs/SF; 24 SF/ctn  
2845 - 1.7 lbs/SF; 16 SF/ctn  
2820, 2820BK - 1.0 lbs/SF; 40 SF/ctn  
2821 - 1.0 lbs/SF; 48 SF/ctn  
2854 - 1.0 lbs/SF; 50 SF/ctn  
2857 - 1.0 lbs/SF; 80 SF/ctn  
2864 - 1.0 lbs/SF; 72 SF/ctn

**Minimum Order Quantity**  
1 carton

**TechLine / 1 877 276-7876**  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: calla)  
BPCS-5867-519

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of The International Living Future Institute.  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America



275

MINERAL FIBER



**CALLA®**  
 Tegular  
 smooth texture



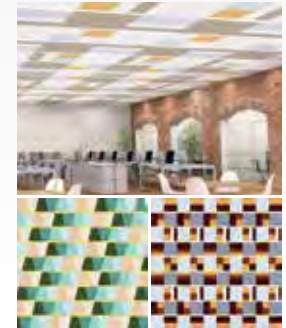
**DESIGNFlex™**  
 CEILING SYSTEMS



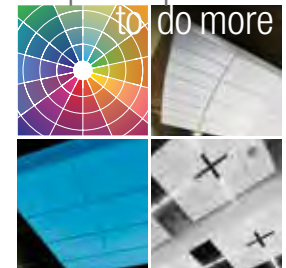
See Calla® Shapes Page 134-137

**Personalize Your Design!**

Mix and match different sizes, shapes, colors and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



plus capabilities  
 to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
 See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

Calla® Square Tegular panels with Suprafine® 9/16" suspension system (Pgs. 466-467)

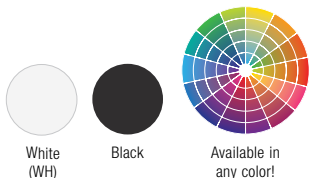
The smoothest finish mineral fiber ceiling available with Total Acoustics® performance – excellent noise reduction and sound blocking in one product.

**KEY SELECTION ATTRIBUTES**

- DESIGNFlex™** options include shapes, made-to-order sizes, and colors available to ship in 3 weeks
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance™
- Calla® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Excellent combination of acoustical performance; NRC (up to 0.90), and CAC (35)
- USDA-Certified Biobased Product – 59%
- Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Product can be recycled through the Armstrong Ceilings Recycling Program
- Compatible with the TechZone® Ceiling Systems
- 30-Year Limited System Warranty against visible sag, mold, and mildew
- 10-Year replacement panel available for item 2824



**COLORS AVAILABLE** Due to printing limitations, shade may vary from actual product.



**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 277.)



Calla® Square Tegular

**CALLA®**  
Regular  
smooth texture

*Now in  
Shapes!*

**GREENGUARD**  
Gold Certified  
(details below)



**Declare™**  
Living Building  
Challenge Compliant

**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems

UP TO **81%** RECYCLED CONTENT

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**VISUAL SELECTION**

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)	
<b>CALLA® Regular</b>				
15/16" Square Regular	8	<b>2822</b>	24 x 24 x 1" □	
	8	<b>2822BK</b>	24 x 24 x 1" □	
	8	<b>2823</b>	24 x 48 x 1" □	
	8	<b>2855</b>	30 x 30 x 1" □	
	8	<b>2858</b>	24 x 60 x 1" □	
	8	<b>2865</b>	24 x 72 x 1" □	
<b>CALLA® Size Capabilities</b>				
15/16" Square Lay-in	<b>1 CTN MIN</b>	<b>Made-to-Order Sizes &amp; Colors (3 Wks)</b>	<b>1" Thick</b>	
			4" - 11-1/2"	12" - 72"
			12" - 30"	4" - 72"
			30-1/2" - 48"	4" - 24"

**PERFORMANCE SELECTION**

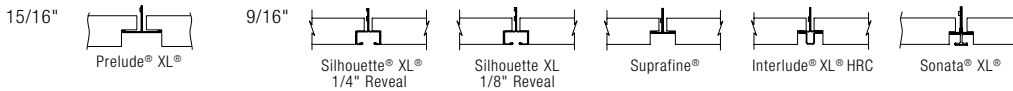
Dots represent high level of performance.

\$\$\$

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect (White Only)	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	NRC+CAC	AC	Class	0.86	•	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	•	•	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	N/A	•	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

**SUSPENSION SYSTEMS**



**PHYSICAL DATA**

**Material**  
Wet-formed mineral fiber with acoustically transparent membrane

**Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type IV, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Design Considerations**  
Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**Acoustical Performance**  
CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail. NRC test conducted using white panels. Painted panels may experience a slight reduction in NRC due to the color painting process.

**High Recycled Content**  
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.



**Insulation Value**  
R Factor - 2.9 (BTU units)  
R Factor - 0.445 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
2846 - 1.7 lbs/SF; 24 SF/ctn  
2847 - 1.7 lbs/SF; 16 SF/ctn  
2822, 2820BK - 1.0 lbs/SF; 40 SF/ctn  
2823 - 1.0 lbs/SF; 48 SF/ctn  
2855 - 1.0 lbs/SF; 50 SF/ctn  
2858 - 1.0 lbs/SF; 80 SF/ctn  
2865 - 1.0 lbs/SF; 72 SF/ctn

**Minimum Order Quantity**  
1 carton

**CALLA®**  
Tegular  
smooth texture

*Now in  
Shapes!*

**GREENGUARD**  
Gold Certified  
(details below)



**Declare™**  
Living Building  
Challenge Compliant

**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems

UP TO **81%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED®** energy management construction waste mgmt regional materials design for flexibility EPD recyclable/extended producer resp. biobased materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

LOCATION DEPENDENT

**VISUAL SELECTION**

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)
	43, 47, 26, 51, 55	<b>2824</b>	24 x 24 x 1" □
	43, 47, 26, 51, 55	<b>2824BK</b>	24 x 24 x 1" □
	43, 47, 26, 51, 55	<b>2825</b>	24 x 48 x 1" □
	43, 47, 26, 51, 55	<b>2856</b>	30 x 30 x 1" □
	43, 47, 26, 51, 55	<b>2859</b>	24 x 60 x 1" □
	43, 47, 26, 51, 55	<b>2866</b>	24 x 72 x 1" □

**CALLA® Size Capabilities**

Width	Length
<b>1" Thick</b>	
4" - 11-1/2"	12" - 72"
12" - 30"	4" - 72"
30-1/2" - 48"	4" - 24"

**1 CTN MIN Made-to-Order Sizes & Colors (3 Wks)**

**PERFORMANCE SELECTION**

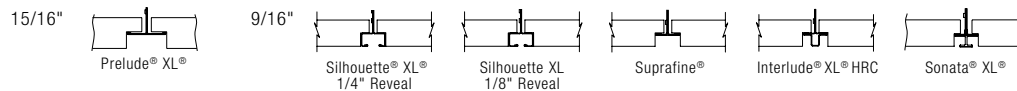
Dots represent high level of performance.

\$\$\$\$

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+			Class	(White Only)	Bio-Block	Humi-Guard+								
0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	N/A	•	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

**SUSPENSION SYSTEMS**



**PHYSICAL DATA**

**Material**  
Wet-formed mineral fiber with acoustically transparent membrane

**Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type IV, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



**Acoustical Performance**  
CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail. NRC test conducted using white panels. Painted panels may experience a slight reduction in NRC due to the color painting process.

**High Recycled Content**  
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
R Factor - 2.9 (BTU units)  
R Factor - 0.445 (Watts units)

**Design Consideration**  
Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
2848 - 1.7 lbs/SF; 24 SF/ctn  
2849 - 1.7 lbs/SF; 16 SF/ctn  
2824 - 1.0 lbs/SF; 40 SF/ctn  
2825 - 1.0 lbs/SF; 48 SF/ctn  
2856 - 1.0 lbs/SF; 50 SF/ctn  
2859 - 1.0 lbs/SF; 80 SF/ctn  
2866 - 1.0 lbs/SF; 72 SF/ctn

**Minimum Order Quantity**  
1 carton

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of The International Living Future Institute.  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America

CALLA®  
 Tegular  
 smooth texture

*Now in  
 Shapes!*

GREENGUARD  
 Gold Certified  
 (details below)



Declare™  
 Living Building  
 Challenge Compliant

SUSTAIN™  
 High Performance  
 Sustainable  
 Ceiling Systems

UP TO 81% RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®	energy management	construction waste to nrgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-----------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

DESIGNFLEX™ PATTERN OPTIONS

\$\$\$

new

CALLA®  
 SHAPES



DESIGNFLEX™  
 A New World of Choice  
 for Ceiling Systems

As part of our new DesignFlex™ portfolio, we now offer the same smooth textured Calla® ceilings in an endless array of colors, shapes, and sizes. All shipped in three weeks! Your design options are virtually unlimited. See our Calla® Shapes product page in the new DesignFlex™ section of this catalog on pages 134-137. Visit our online Pattern Gallery and choose one of our predesigned patterns or create one that is uniquely yours.



It's all Online: [armstrongceilings.com/patterngallery](http://armstrongceilings.com/patterngallery)



MINERAL FIBER

**new** CALLA®  
Vector®  
smooth texture

**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems

**DESIGNFlex™**  
A New World of Choice  
for Ceiling Systems

**DESIGNFlex™**  
CEILING SYSTEMS



**Personalize Your Design!**  
Mix and match different sizes, colors, and materials to reinvent your ceiling. More at:  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



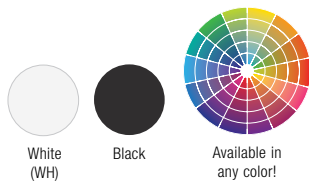
Calla® Vector® panels with Prelude® 15/16" suspension system (Pgs. 458-459)

Calla® Vector® panels are great for projects where plenum space is limited and a sleek, monolithic visual is desired.

**KEY SELECTION ATTRIBUTES**

- new** • DESIGNFlex™ options include made-to-order sizes and colors available to ship in 3 weeks
- Smoothest mineral fiber panel available
- Calla® Vector® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- new** • 1/4" reveal resulting in a monolithic appearance
- Vector Trim Kit in Blizzard White finish for easy installation and bright visual
- Washable, scratch-resistant, soil-resistant
- Excellent sound absorption – NRC (0.80)
- Downward accessible for minimal plenum height
- USDA Certified Biobased Product – 59%
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 30-Year Limited System Warranty against visible sag, mold, and mildew

**COLORS AVAILABLE** Due to printing limitations, shade may vary from actual product.



**DETAILS**



1. Calla® Vector®
2. Calla® Vector® with Prelude® 15/16" suspension system



LOCATION DEPENDENT

**VISUAL SELECTION**

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)
		<b>2814</b>	24 x 24 x 1"
		<b>2815</b>	24 x 48 x 1"

**Size Capabilities**

**1 CTN MIN**  
Made-to-Order Sizes & Colors (3 Wks)

Width	Length
<b>1" Thick</b>	
4" – 11-1/2"	12" – 48"
12" – 24"	4" – 48"
24-1/2" – 48"	4" – 24"

**PERFORMANCE SELECTION**

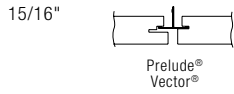
Dots represent high level of performance.

\$\$\$

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC													
0.80	33	–	170	Class A	0.86	•	•	•	•	•	•	•	•	•
0.80	33	–	170	Class A	0.86	•	•	•	•	•	•	•	•	•
N/A	N/A	–	N/A	Class A	0.86	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

**SUSPENSION SYSTEMS**



**VECTOR TRIM KITS**

Item No.	Length	Color	Substrate	Pcs/Ctn
<b>VETK4ZW</b>	4"	Blizzard White	Steel	24
<b>VETK6ZW</b>	6"	Blizzard White	Steel	24
<b>VETK24ZW</b>	24"	Blizzard White	Steel	24
<b>VETK48ZW</b>	48"	Blizzard White	Steel	24
<b>VETK96ZW</b>	96"	Blizzard White	Steel	24

**Made-to-Order Sizes & Colors (4-6 Wks)**

**Length:** 4" – 96"

**ACCESSORIES (must be ordered separately)**

Item No.	Description	Pcs/Ctn
<b>442A</b>	Vector Hold-down Clip (for all installations)	50
<b>443</b>	Calla® Vector® Border Clip	50
<b>522</b>	Midpoint Clip (Needed for panels over 30" wide)	50
<b>7425</b>	24" Stabilizer Bar	100
<b>7445</b>	48" Stabilizer Bar	100
<b>7870</b>	Spring Border Clip (For installations with the panel resting on the wall molding)	1,000

**PHYSICAL DATA**

**Material**  
Wet-formed mineral fiber with an acoustically transparent membrane.

**Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint.

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type IV, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Acoustical Performance**  
CAC testing conducted using Prelude® XL® suspension system.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.



**Insulation Value**  
R Factor – 2.9 (BTU units)  
R Factor – 0.445 (Watts units)

**Design Consideration**  
Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Weight; Square Feet/Carton**  
2814 – 1.0 lbs/SF; 40 SF/ctn  
2815 – 1.0 lbs/SF; 48 SF/ctn

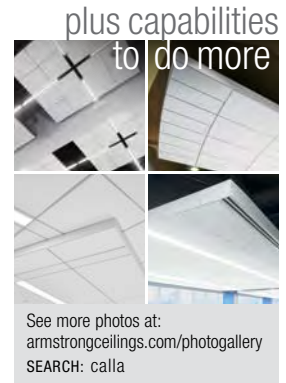
**Minimum Order Quantity**  
1 carton



MINERAL FIBER



**CALLA® High NRC**  
Square Lay-in & Tegular  
smooth texture



Calla® High NRC Square Lay-in panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

The smoothest finish mineral fiber ceiling available with Total Acoustics® performance – excellent noise reduction and sound blocking in one product.

**KEY SELECTION ATTRIBUTES**

- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance™
- Calla® High NRC panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Excellent combination of acoustical performance; NRC (0.90) and CAC (35)
- Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Product can be recycled through the Armstrong Ceilings Recycling Program
- Compatible with the TechZone® Ceiling Systems
- 30-Year Limited System Warranty against visible sag, mold, and mildew

**COLOR**



**DETAILS**



1. Calla® High NRC Square Lay-in
2. Calla® High NRC Square Tegular

**CALLA® High NRC**  
Square Lay-in & Tegular  
smooth texture

**GREENGUARD**  
Gold Certified  
(details below)



**Declare™**  
Living Building  
Challenge Compliant

**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems

**78% RECYCLED CONTENT**

Calculate LEED contribution at  
armstrongceilings.com/greengenie



LOCATION DEPENDENT

**VISUAL SELECTION**

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)
	armstrongceilings.com/catdwgs		

**CALLA® High NRC Square Lay-in**

15/16" Square Lay-in	1	<b>2844</b>	24 x 24 x 1-3/4" □
----------------------	---	-------------	--------------------

**CALLA® High NRC Square Tegular**

15/16" Square Tegular	1	<b>2846</b>	24 x 24 x 1-3/4" □
-----------------------	---	-------------	--------------------

9/16" Square Tegular	1	<b>2848</b>	24 x 24 x 1-3/4" □
----------------------	---	-------------	--------------------

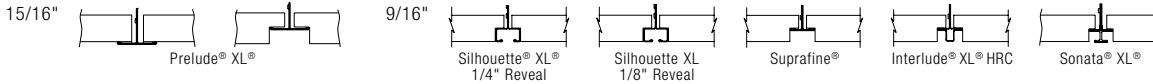
**PERFORMANCE SELECTION** Dots represent high level of performance.

\$\$\$

UL Classified Acoustics	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC + CAC =	NRC + CAC	AC	Class	(White Only)	Bio-Block	Humi-Guard+								
0.90	35	<b>BEST</b>	170	Class A	0.86									
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

**SUSPENSION SYSTEMS**



**PHYSICAL DATA**

**Material**  
Wet-formed mineral fiber with acoustically transparent membrane

**Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type IV, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



**Acoustical Performance**  
CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail. NRC test conducted using white panels.

**High Recycled Content**  
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
R Factor – 5.83 (BTU units)  
R Factor – 1.03 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Weight; Square Feet/Carton**  
2844, 2846, 2848 – 1.7 lbs/SF; 24 SF/ctn

**Minimum Order Quantity**  
1 carton

**TechLine / 1 877 276-7876**  
armstrongceilings.com/commercial  
(search: calla)  
BPCS-5696-419

LEED® is a registered trademark of the U.S. Green Building Council. Declare™ is a service mark of The International Living Future Institute. UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2019 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

281B



MINERAL FIBER

**new** CALLA® High CAC  
Square Lay-in & Tegular  
smooth texture



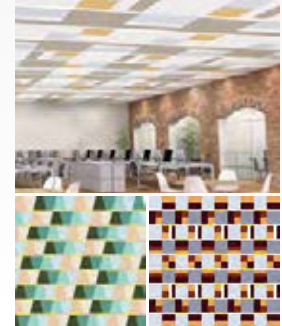
**DESIGNFlex™**  
CEILING SYSTEMS



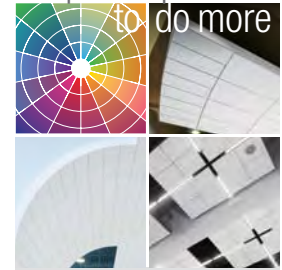
See Calla® Shapes Page 134-137

**Personalize Your Design!**

Mix and match different sizes, shapes, colors and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



plus capabilities  
to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)



Calla® High CAC Square Tegular panels with Suprafine® 9/16" suspension system (Pgs. 466-467)

The smoothest mineral fiber ceiling available with both Total Acoustics® and Sustain® performance, now with excellent sound blocking.

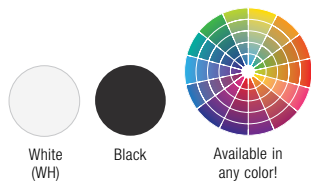
**KEY SELECTION ATTRIBUTES**

- DESIGNFlex™ options include made-to-order sizes and colors available to ship in 3 weeks
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance™
- Calla® High CAC panels are part of the Sustain® portfolio and meet the most stringent sustainability compliance standards today
- Excellent combination of acoustical performance with exceptional noise blocking; NRC (0.80), CAC (40), and AC (170)
- Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- USDA-Certified Biobased Product – 59%
- Compatible with the TechZone® Ceiling Systems
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 30-Year Limited System Warranty against visible sag, mold, and mildew

**TYPICAL APPLICATIONS**

- Offices – closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- Healthcare – assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- Classrooms
- Corridors
- Lobbies/reception areas

**COLORS AVAILABLE** Due to printing limitations, shade may vary from actual product.



**DETAILS**



1. Calla® High CAC Square Tegular
2. Calla High CAC Square Lay-in
3. Calla High CAC Square Tegular with Suprafine 9/16" suspension system

**CALLA® High CAC**  
Square Lay-in & Tegular  
smooth texture

**Declare**<sup>SM</sup>  
Living Building  
Challenge Compliant

**SUSTAIN**<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems



**76% RECYCLED CONTENT**

Calculate LEED contribution at  
armstrongceilings.com/greengenie

**LEED**

**VISUAL SELECTION**

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)
		armstrongceilings.com/catdwgs	

**CALLA® High CAC Square Lay-in**

15/16" Square Lay-in	1	<b>8805</b>	24 x 24 x 1"	
	1	<b>8808</b>	24 x 48 x 1"	
	1	<b>8811</b>	24 x 60 x 1"	
	1	<b>8814</b>	24 x 72 x 1"	
	1	<b>8817</b>	30 x 30 x 1"	

**Size Capabilities**

	Width	Length
15/16" Square Tegular	<b>1 CTN MIN</b>	<b>Made-to-Order Sizes &amp; Colors (3 Wks)</b>
	<b>1" Thick</b>	
	4" – 11-1/2"	12" – 72"
	12" – 24-1/2"	4" – 72"
	25" – 30-1/2"	4" – 30"
	31" – 35-1/2"	4" – 29"
	36" – 48"	4" – 24"

**CALLA High CAC Square Tegular**

15/16" Square Tegular	8	<b>8806</b>	24 x 24 x 1"	
	8	<b>8809</b>	24 x 48 x 1"	
	8	<b>8812</b>	24 x 60 x 1"	
	8	<b>8815</b>	24 x 72 x 1"	
	8	<b>8818</b>	30 x 30 x 1"	
9/16" Square Tegular	26, 43, 47, 51, 55	<b>8807</b>	24 x 24 x 1"	
	26, 43, 47, 51, 55	<b>8810</b>	24 x 48 x 1"	
	26, 43, 47, 51, 55	<b>8813</b>	24 x 60 x 1"	
	26, 43, 47, 51, 55	<b>8816</b>	24 x 72 x 1"	
	26, 43, 47, 51, 55	<b>8819</b>	30 x 30 x 1"	

**Size Capabilities**

	Width	Length
15/16" Square Tegular	<b>1 CTN MIN</b>	<b>Made-to-Order Sizes &amp; Colors (3 Wks)</b>
	<b>1" Thick</b>	
	4" – 11-1/2"	12" – 72"
	12" – 24-1/2"	4" – 72"
	25" – 30-1/2"	4" – 30"
	31" – 35-1/2"	4" – 29"
	36" – 48"	4" – 24"

**PERFORMANCE SELECTION** Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	= NRC + CAC	AIC	Class	Light Reflect	Bio-Block	Humi-Guard+								
0.80	40	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0.80	40	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0.80	40	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0.80	40	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0.80	40	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0.80	40	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0.80	40	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0.80	40	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0.80	40	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
0.80	40	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

NRC + CAC  
AC

MINERAL FIBER

**CALLA® High CAC**  
Square Lay-in & Tegular  
smooth texture

**Declare<sup>SM</sup>**  
Living Building  
Challenge Compliant

**SUSTAIN<sup>®</sup>**  
High Performance  
Sustainable  
Ceiling Systems



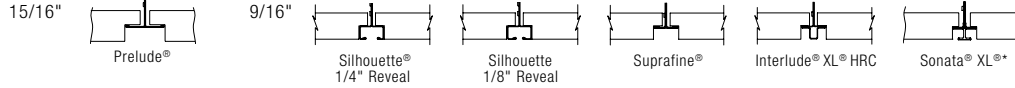
**76% RECYCLED CONTENT**

Calculate LEED contribution at  
[armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

<b>LEED<sup>®</sup></b>	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	bio-based materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------------------------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	---------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

▲ LOCATION DEPENDENT

**SUSPENSION SYSTEMS**



**PHYSICAL DATA**

**Material**  
Wet-formed mineral fiber with acoustically transparent membrane

**Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled)

**Design Considerations**  
Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**ASTM E1264 Classification**  
Type IV, Form 2, Pattern E; Fire Class A

**Humidity/Sag Resistance**  
HumiGuard<sup>®</sup> Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock<sup>®</sup> performance resist the growth of mold and mildew.

**VOC Emissions**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol

**High Recycled Content**  
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
R Factor – 2.9 (BTU units)  
R Factor – 0.445 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong<sup>®</sup> Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
8805, 8806, 8807 – 1.0 lbs/SF; 40 SF/ctn  
8808, 8809, 8810 – 1.0 lbs/SF; 48 SF/ctn  
8817, 8818, 8819 – 1.0 lbs/SF; 50 SF/ctn  
8814, 8815, 8816 – 1.0 lbs/SF; 72 SF/ctn  
8811, 8812, 8813 – 1.0 lbs/SF; 80 SF/ctn

**Minimum Order Quantity**  
1 carton



MINERAL FIBER

281E

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: calla)

BPCS-5936-419

LEED<sup>®</sup> is a registered trademark of the U.S. Green Building Council  
Declare<sup>™</sup> is a service mark of The International Living Future Institute  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America





- NRC
- CAC
- AC
- Lightbulb icon
- Leaf icon
- Water drop icon
- Microphone icon
- Speaker icon
- Lightning bolt icon
- Microchip icon
- Play button icon
- Recycling symbol icon

MINERAL FIBER

**CANYON®**  
 Square Lay-in & Tegular  
 smooth texture



Canyon® Square Lay-in panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

Smooth finish, mineral fiber ceiling panel with Total Acoustics® performance.

**KEY SELECTION ATTRIBUTES**

- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance
- Canyon® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Smooth, White surface
- Good combination of acoustical performance; NRC (0.60) and CAC (35)
- 30-Year Limited System Warranty against visible sag, mold, and mildew

**COLORS**



White  
(WH)

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 283.)



1. Canyon® Square Lay-in
2. Canyon® Square Lay-in with Prelude® XL® 15/16" suspension system



# CANYON®

## Square Lay-in & Tegular smooth texture

**GREENGUARD**  
Gold Certified  
(details below)

**Declare**™  
Living Building  
Challenge Compliant



**SUSTAIN**™  
High Performance  
Sustainable  
Ceiling Systems

**44%** RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie



### VISUAL SELECTION

Edge Profile	Suspension Detail Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)
--------------	-------------------------------------	----------	---------------------

#### CANYON® Square Lay-in & Tegular

15/16" Square Lay-in	1	<b>1490</b>	24 x 24 x 5/8"	<input type="checkbox"/>
	1	<b>1491</b>	24 x 48 x 5/8"	<input type="checkbox"/>
15/16" Beveled Tegular	15	<b>1492</b>	24 x 24 x 5/8"	<input type="checkbox"/>
	15	<b>1493</b>	24 x 48 x 5/8"	<input type="checkbox"/>
9/16" Beveled Tegular	44, 48, 29, 52, 56	<b>1494</b>	24 x 24 x 5/8"	<input type="checkbox"/>
	44, 48, 29, 52, 56	<b>1495</b>	24 x 48 x 5/8"	<input type="checkbox"/>

#### CANYON® Size Capabilities

	Width	Length
15/16" Square Lay-in	<b>Made-to-Order Sizes (4-6 Wks)</b>	<b>5/8" Thick</b>
15/16" & 9/16" Beveled Tegular		12" - 24"      18" - 72"

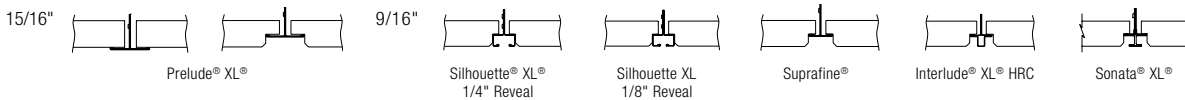
<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

### PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	NRC CAC			Bio Block	Humi-Guard+					
0.60	35	<b>GOOD</b>	Class A	0.80	•	•	•	Std	Std	•	•
0.60	35	<b>GOOD</b>	Class A	0.80	•	•	•	Std	Std	•	•
0.60	35	<b>GOOD</b>	Class A	0.80	•	•	•	Std	Std	•	•
0.60	35	<b>GOOD</b>	Class A	0.80	•	•	•	Std	Std	•	•
N/A	N/A	—	Class A	0.80	•	•	•	Std	Std	•	•

### SUSPENSION SYSTEMS



### PHYSICAL DATA

**Material**  
Mineral fiber with acoustically transparent membrane

**Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type IV, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Acoustical Performance**  
CAC testing conducted on Silhouette® suspension system

**Insulation Value**  
R Factor – 1.5 (BTU units)  
R Factor – 0.26 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong Suspension System. Details at armstrongceilings.com

**Weight; Square Feet/Carton**  
0.76 lbs/SF; 64 SF/ctn

**Minimum Order Quantity**  
1 carton, excludes made-to-order panels



# CERAMAGUARD®/ CERAMAGUARD® FINE FISSURED™

Square Lay-in  
medium texture



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: ceramaguard

This is a non-directional ceiling panel for special application areas prone to moisture.

## KEY SELECTION ATTRIBUTES

- Inorganic product. Resistant to the growth of mold and mildew
- Durable – Washable, Soil-resistant
- Resistance to chemical fumes
- Non-directional visual reduces scrap and installation time
- Superior resistance to sagging in high humidity conditions including standing water and outdoor applications
- 30-Year Limited System Warranty against visible sag, mold, and mildew

## TYPICAL APPLICATIONS

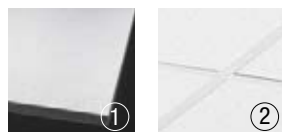
- Laboratories
- Locker rooms/indoor pools
- Hydrotherapy/shower areas
- Food preparation areas (unperforated only)
- Exterior soffits/canopies
- Indoor parking garages
- Marine use (See note under "Application Considerations")

## COLOR



White  
(WH)

## DETAILS



1. Ceramaguard® Square Lay-in
2. Ceramaguard® with Prelude® Plus XL® 15/16" suspension system

# CERAMAGUARD®/ CERAMAGUARD® FINE FISSURED™

Square Lay-in  
medium texture

**37% RECYCLED CONTENT**

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**GREENGUARD Gold Certified**  
(details below)




LOCATION DEPENDENT

## VISUAL SELECTION

## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
<b>CERAMAGUARD® – Unperforated*</b>			
15/16" Square Lay-in	1	<b>605*</b>	24 x 48 x 5/8" 
<b>CERAMAGUARD® FINE FISSURED™ – Perforated</b>			
15/16" Square Lay-in	1	<b>607</b>	24 x 24 x 5/8" 
	1	<b>608</b>	24 x 48 x 5/8" 

UL Classified Acoustics	NRC + CAC	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Soil	Recycled Content	Recycle Program	30-Yr Warranty
N/A	40	–	Fire Guard™	0.88	Bio-Block	Humi-Guard™				Std	–	•
0.55	38	–	Fire Guard	0.82						Std	–	•
0.55	40	–	Fire Guard	0.82						Std	–	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
\* Plain pattern (unperforated) is not appropriate where aesthetics or visual consistency is important.

## SUSPENSION SYSTEMS

15/16"



Prelude®, Prelude® Plus XL® Aluminum, Prelude® XL® Fire Guard™, Prelude® Plus XL® Fire Guard™, Prelude Plus XL Stainless Steel, Prelude XL for Exterior Applications

## PHYSICAL DATA

### Material

Wet-formed ceramic and mineral fiber composite

### Surface Finish

Scrubable factory-applied plastic paint finish

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

### ASTM E1264 Classification

Type XX (high density ceramic-like composition with scrubable finish). Pattern C E (items 607, 608); Pattern G (item 605) Fire Class A

### Humidity/Sag Resistance

HumiGuard® Max ceiling panels are recommended for areas with maximum humidity, including outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions GREENGUARD Gold Certified

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### Insulation Value

R Factor — 1.4 (BTU units)  
R Factor — 0.25 (Watts units)

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
[UL.COM/GG](http://UL.COM/GG)  
UL 2818



### Application Considerations

For outdoor soffits and canopies, wind uplift should be considered. Ceramaguard® is non-combustible per ASTM E136 and ISO 1182. See USCG Approval 164.109/52/0 for marine applications in all waters.

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
605, 608 – 1.52 lbs/SF; 48 SF/ctn  
607 – 1.48 lbs/SF; 48 SF/ctn

**Minimum Order Quantity**  
1 carton

**Metric Items Available**  
605M, 607M, and 608M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: ceramaguard)  
BPCS-3224-718

LEED® is a registered trademark of the U.S. Green Building Council  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

285



MINERAL FIBER

# CIRRUS® High NRC CIRRUS®

Square Lay-in  
medium texture



**TOTAL ACOUSTICS®**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)



**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems



**DESIGNFlex™**  
A New World of Choice  
for Ceiling Systems

## DESIGNFlex™ CEILING SYSTEMS



SIZES

**Personalize Your Design!**  
Mix and match different sizes and materials to reinvent your ceiling. More at:  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



Cirrus®

Cirrus® High NRC

Cirrus® Square Lay-in panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: cirrus

This medium-textured ceiling panel offers Total Acoustics® performance, excellent sound absorption, and blocking in one product.

### KEY SELECTION ATTRIBUTES

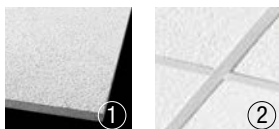
- new** • DesignFlex™ options include made-to-order sizes available to ship in 3 weeks
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance
- Cirrus® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Refined visual
- Excellent combination of acoustical performance NRC (up to 0.75) and CAC (35)
- High NRC items feature Articulation Class (170), helpful to control sound over wall partitions
- Ceiling-2-Ceiling™ Post-consumer Recycled Content options: Items 574HRC and 533HRC. 71% Pre-consumer; 15% Post-consumer
- USDA Certified Biobased Product – 94%

### COLOR



White  
(WH)

### DETAILS



1. Cirrus® Square Lay-in
2. Cirrus® Square Lay-in with Prelude® 15/16" suspension system

# CIRRUS® High NRC CIRRUS®

Square Lay-in  
medium texture



**GREENGUARD**  
Gold Certified  
(details below)

**Declare**<sup>SM</sup>  
Living Building  
Challenge Compliant



**SUSTAIN**<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO **87%** RECYCLED CONTENT

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
--------------	--	----------	---------------------

### CIRRUS® High NRC

15/16" Square Lay-in	1	<b>563</b>	24 x 24 x 7/8"
	1	<b>565</b>	24 x 48 x 7/8"

### CIRRUS® High NRC Size Capabilities

	Width	Length
15/16" Square Lay-in	<b>Made-to-Order Sizes (3-4 Wks)</b>	7/8" Thick 4" - 24"    4" - 48"

### CIRRUS® Square Lay-in

15/16" Square Lay-in	1	<b>574</b> <b>574HRC</b>	24 x 24 x 3/4"
	1	<b>533</b> <b>533HRC</b>	24 x 48 x 3/4"

### CIRRUS® Size Capabilities

	Width	Length
15/16" Square Lay-in	<b>1 CTN MIN</b> <b>Made-to-Order Sizes (3 Wks)</b>	3/4" Thick 4" - 24"    4" - 48"

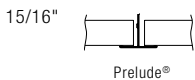
<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	= NRC + CAC	AC			Bio-Block	Humi-Guard+					
0.75	35	<b>BETTER</b>	170	Class A	0.85	•	•	•	Std	•	•	•
0.75	35	<b>BETTER</b>	170	Class A	0.85	•	Std	•	Std	•	•	10-Yr
N/A	N/A	–	–	Class A	0.85	•	Std	•	Std	•	•	10-Yr
0.70	35	<b>BETTER</b>	–	Class A	0.86	•	•	•	Std	•	•	•
0.70	35	<b>BETTER</b>	–	Class A	0.86	•	Std	•	Std	•	•	10-Yr
N/A	N/A	–	–	Class A	0.86	•	Std	•	Std	•	•	10-Yr

## SUSPENSION SYSTEMS



## PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification

Type III, Form 1, Pattern E I  
Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes items 533, 533HRC, 565, and large sizes.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions

**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### Acoustical Performance

CAC testing conducted using Prelude XL suspension system.

### Primary (Embodied) Energy

See all LCA information on our EPDs.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
[UL.COM/GG](http://UL.COM/GG)  
UL 2818



### Insulation Value

R Factor – 1.9 (BTU units)  
R Factor – 0.33 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight: Square Feet/Carton

533, 565 – 1.21 lbs/SF; 48 SF/ctn  
563 – 1.33 lbs/SF; 40 SF/ctn  
574 – 1.10 lbs/SF; 48 SF/ctn

### Minimum Order Quantity

1 carton, excludes Cirrus® High NRC panels

### Metric Items Available

574M, 533M, 563M, 565M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

# CIRRUS® High NRC CIRRUS®

Tegular  
medium texture



**TOTAL ACOUSTICS®**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)



**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems



**DESIGNFlex™**  
A New World of Choice  
for Ceiling Systems

# DESIGNFlex™ CEILING SYSTEMS



**Personalize Your Design!**  
Mix and match different sizes and materials to reinvent your ceiling. More at:  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



Cirrus

Cirrus High NRC

Cirrus® Beveled Tegular panels with Suprafine® XL® 9/16" suspension system (Pgs. 466-467)



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: cirrus

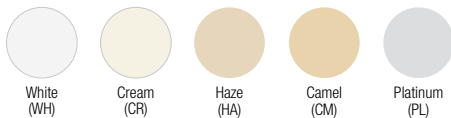
Cirrus panels offer a medium-textured ceiling panel with excellent noise reduction and sound blocking for Total Acoustics® performance in one product.

## KEY SELECTION ATTRIBUTES

- new** DesignFlex™ options include made-to-order sizes available to ship in 3 weeks
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance
- Cirrus® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Refined visual
- Excellent combination of acoustical performance: NRC (up to 0.75) and CAC (35)
- High NRC items feature Articulation Class (170) helpful to control sound over wall partitions
- Ceiling-2-Ceiling™ post-consumer recycled content options. Items 589HRC, 539HRC, 584HRC, 535HRC. 71% pre-consumer; 15% post-consumer
- USDA-Certified Biobased Product – 94%
- 10-Year replacement panel available for items 584, 589

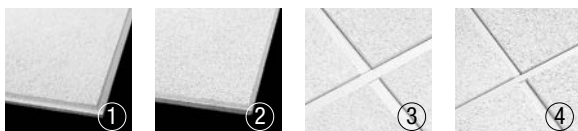


**COLORS** Due to printing limitations, shade may vary from actual product.



Items 584 and 589 are available in colors. All other items are available in White only. Colored ceilings are dye-lotted and should be segregated by dye lot. Do not mix. Colors other than White are not part of the Sustain® portfolio.

**DETAILS** (Other Suspension Systems compatible. Refer to listing on pages 289.)



1. Cirrus® Angled Tegular
2. Cirrus® Beveled Tegular
3. Cirrus® Angled Tegular with Prelude® 15/16" suspension system
4. Cirrus® Beveled Tegular with Suprafine® 9/16" suspension system

# CIRRUS® High NRC CIRRUS®

Tegular  
medium texture

**GREENGUARD**  
Gold Certified  
(details below)



**Declare**<sup>SM</sup>  
Living Building  
Challenge Compliant

**SUSTAIN**<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO **73%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics







LOCATION DEPENDENT

## VISUAL SELECTION

## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
<b>CIRRUS® High NRC</b>			
15/16" Angled Tegular 	13	<b>556</b>	24 x 24 x 7/8" 
	13	<b>551</b>	24 x 48 x 7/8" 
9/16" Beveled Tegular 	29, 44, 48, 52, 56	<b>558</b>	24 x 24 x 7/8" 
	29, 44, 48, 52, 56	<b>568</b>	24 x 48 x 7/8" 
<b>Size Capabilities</b>		<b>Width</b>	<b>Length</b>
15/16" Angled Tegular	<b>Made-to-Order Sizes (3-4 Wks)</b>	7/8" Thick	
		4" - 24"	4" - 48"
9/16" Beveled Tegular			

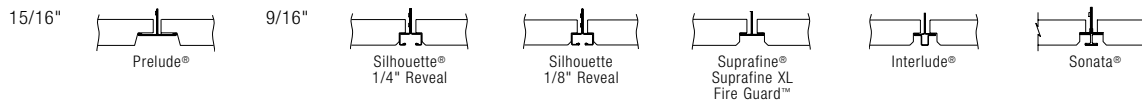
UL Classified Acoustics	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
NRC + CAC =	NRC + CAC	AC	Fire	Light	Bio-Block	Humi-Guard+					
0.75 + 35 = <b>BETTER</b>	170	Class A	0.85	•	•	•	Std	•	•	•	
0.75 + 35 = <b>BETTER</b>	170	Class A	0.85	•	Std	•	Std	•	•	10-Yr	
0.75 + 35 = <b>BETTER</b>	170	Class A	0.85	•	•	Std	Std	•	•	10-Yr	
0.75 + 35 = <b>BETTER</b>	170	Class A	0.85	•	Std	•	Std	•	•	10-Yr	
N/A + N/A = -	N/A	Class A	0.85	•	Std	•	Std	•	•	10-Yr	



[MORE ITEMS](#) ▶

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled)

**ASTM E1264 Classification**  
Type III, Form 1, Pattern E I  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



**Acoustical Performance**  
CAC testing conducted using Silhouette® suspension system.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
R Factor – 1.9 (BTU units)  
R Factor – 0.33 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
551 – 1.21 lbs/SF; 48 SF/ctn  
556, 558 – 1.50 lbs/SF; 40 SF/ctn  
568 – 1.25 lbs/SF; 48 SF/ctn

**Metric Items Available**  
551M, 558M, 568M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

# CIRRUS® High NRC CIRRUS®

Tegular  
medium texture



**GREENGUARD**  
Gold Certified  
(details below)



**Declare**<sup>SM</sup>  
Living Building  
Challenge Compliant

**SUSTAIN**<sup>®</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO **87%** RECYCLED CONTENT

**LEED**<sup>®</sup>

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

## VISUAL SELECTION

## PERFORMANCE SELECTION

Dots represent high level of performance.

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
--------------	---	----------	---------------------

### CIRRUS® Tegular

9/16" Beveled Tegular	29, 44, 48, 52, 56	<b>589</b> ♦♦ <b>589HRC</b> <b>589M</b>	24 x 24 x 3/4" □ 24 x 24 x 3/4" □ 600 x 600 x 19mm
	29, 44, 48, 52, 56	<b>538</b>	24 x 24 x 7/8" □
	29, 44, 48, 52, 56	<b>577</b>	24 x 24 x 3/4" □
	29, 44, 48, 52, 56	<b>539</b> <b>539HRC</b>	24 x 48 x 3/4" □ 24 x 48 x 3/4" □

### CIRRUS Tegular

15/16" Angled Tegular	13	<b>584</b> ♦♦ <b>584HRC</b> <b>584M</b>	24 x 24 x 3/4" □ 24 x 24 x 3/4" □ 600 x 600 x 19mm
	13	<b>578</b>	24 x 24 x 3/4" □
	13	<b>534</b>	24 x 24 x 7/8" □
	13	<b>535</b> <b>535HRC</b>	24 x 48 x 3/4" □ 24 x 48 x 3/4" □

UL Classified Acoustics	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
NRC + CAC =	NRC + CAC										
0.70 + 35 =	<b>BETTER</b>	-	Class A	0.86*	•	•	•	Std	•	•	•
0.70 + 38 =	<b>BETTER</b>	-	Class A	0.86	•	•	•	Std	•	•	•
0.35 + 35 =	-	-	Fire Guard	0.86	•	•	•	Std	Std	•	•
0.70 + 35 =	<b>BETTER</b>	-	Class A	0.86	•	Std	•	Std	•	•	10-Yr
0.70 + 35 =	<b>BETTER</b>	N/A	Class A	0.86*	•	•	•	Std	•	•	•
0.35 + 35 =	-	N/A	Fire Guard	0.86	•	•	•	Std	Std	•	•
0.70 + 38 =	<b>BETTER</b>	N/A	Class A	0.86	•	•	•	Std	•	•	•
0.70 + 35 =	<b>BETTER</b>	N/A	Class A	0.86	•	Std	•	Std	•	•	10-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)  
 \* White only  
 ♦♦ Add 2-letter color suffix to item number when specifying or ordering (e.g., 589 C B).



MINERAL FIBER



# CIRRUS® High NRC CIRRUS®

Tegular  
medium texture



**GREENGUARD**  
Gold Certified  
(details below)

**Declare**™  
Living Building  
Challenge Compliant



**SUSTAIN**™  
High Performance  
Sustainable  
Ceiling Systems

UP TO **73%** RECYCLED CONTENT

**LEED**™

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

## VISUAL SELECTION

## PERFORMANCE SELECTION

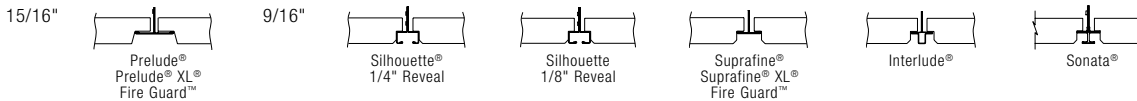
Dots represent high level of performance.

\$\$\$

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)	UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
				NRC	CAC											
<b>CIRRUS® High CAC</b>																
15/16" Angled Tegular	13	<b>572</b>	24 x 24 x 7/8" □	0.70	40	<b>BETTER</b>	-	Class A	0.86	•	•	•	Std	•	•	•
	13		24 x 48 x 7/8" □	0.70	40	<b>BETTER</b>	-	Class A	0.86	•	Std	•	Std	•	•	10-Yr
9/16" Beveled Tegular	29, 44, 48, 52, 56	<b>576</b>	24 x 24 x 7/8" □	0.70	40	<b>BETTER</b>	-	Class A	0.86	•	•	•	Std	•	•	•
	29, 44, 48, 52, 56		24 x 48 x 7/8" □	0.70	40	<b>BETTER</b>	-	Class A	0.86	•	Std	•	Std	•	•	10-Yr
<b>CIRRUS® High CAC Size Capabilities</b>																
15/16" Angled Tegular	<b>1 CTN MIN</b>	<b>Made-to-Order Sizes (3 Wks)</b>	<b>3/4" Thick</b>	N/A	N/A	-	N/A	Class A	0.86	•	Std	•	Std	Std	•	10-Yr
9/16" Beveled Tegular			4" - 24"	4" - 48"												

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled) Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A)

**ASTM E1264 Classification**  
Type III, Form 1, Pattern E I  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes items 535, 539, 581, 583.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.



**Acoustical Performance**  
CAC testing conducted using Silhouette® suspension system.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

**Insulation Value**  
R Factor - 1.9 (BTU units)  
R Factor - 0.33 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
534, 538, 572, 576 - 1.38 lbs/SF; 40 SF/ctn  
535, 539, 581, 583 - 1.21 lbs/SF; 48 SF/ctn  
577, 578 - 1.25 lbs/SF; 48 SF/ctn  
584, 589 - 1.06 lbs/SF; 48 SF/ctn

**Minimum Order Quantity**  
1 carton

**Metric Items Available**  
584M, 578M, 534M, 572M, 581M, 535M, 589M, 538M, 577M, 583M, 539M - Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



MINERAL FIBER

**CIRRUS® Profiles**  
 Chamfered, Beveled &  
 Classic Step™ – Tegular  
 medium texture



Cirrus® Classic Step™ panels with Suprafine® XL® 9/16" suspension system (Pgs. 466-467)

These medium-textured ceiling panels feature Total Acoustics® performance with a variety of dimensional edge details.

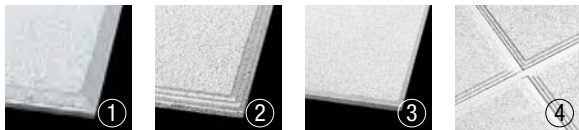
**KEY SELECTION ATTRIBUTES**

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Cirrus® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Classic edge details on refined Cirrus texture
- High quality factory-finished edge detail
- Ideal combination of sound absorption and blocking
- USDA-Certified Biobased Product – 94%

**COLOR**



**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 293.)



1. Cirrus® Chamfered
2. Cirrus® Classic Step
3. Cirrus® Beveled Tegular
4. Cirrus® Classic Step with Suprafine® 9/16" suspension system

# CIRRUS® Profiles

Chamfered, Beveled & Classic Step™ – Tegular medium texture

**GREENGUARD**  
Gold Certified  
(details below)



**Declare**<sup>SM</sup>  
Living Building  
Challenge Compliant

**SUSTAIN**<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO **77%** RECYCLED CONTENT

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
<b>CIRRUS® Profiles Chamfered*</b>			
15/16" Tegular	17	<b>628</b>	24 x 24 x 3/4" □
9/16" Tegular	30	<b>557</b>	24 x 24 x 3/4" □
<b>CIRRUS® Profiles Beveled</b>			
9/16" Tegular	29	<b>590</b>	24 x 24 x 3/4" ▣
<b>CIRRUS® Profiles Classic Step™</b>			
15/16" Tegular	19	<b>626</b>	24 x 24 x 3/4" ▣
15/16" Tegular	18	<b>591</b>	24 x 24 x 3/4" □
9/16" Tegular	31	<b>591</b>	24 x 24 x 3/4" □
9/16" Tegular	32	<b>585</b>	24 x 24 x 3/4" ▣

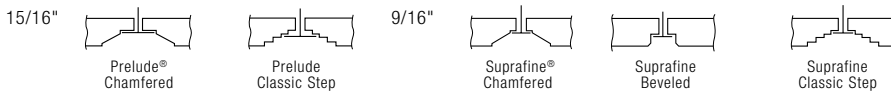
## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	= NRC + CAC			Bio-Block	Humi-Guard+					
0.65	35	<b>GOOD</b>	Class A	0.85	•	•	•	Std	•	•	•
0.65	35	<b>GOOD</b>	Class A	0.85	•	•	•	Std	•	•	•
0.65	35	<b>GOOD</b>	Class A	0.85	•	Std	•	Std	•	•	10-Yr
0.65	35	<b>GOOD</b>	Class A	0.85	•	•	•	Std	•	•	•
0.65	35	<b>GOOD</b>	Class A	0.85	•	•	•	Std	•	•	•
0.65	35	<b>GOOD</b>	Class A	0.85	•	Std	•	Std	•	•	10-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)  
 \* Ceiling design copyrighted by AWI Licensing LLC.

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
557, 591, 628 – Type III, Form 1, Pattern E I  
585, 590, 626 – Type III, Form 1, Pattern E I K  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes items 585, 590, 626.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.



**Insulation Value**  
R Factor – 1.9 (BTU units)  
R Factor – 0.33 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
590, 591 – 1.06 lbs/SF; 48 SF/ctn  
557, 585, 626, 628 – 1.17 lbs/SF; 48 SF/ctn

**Minimum Order Quantity**  
1 carton

**Metric Items Available**  
628M, 557M, 590M, 591M, 626M, and 585M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

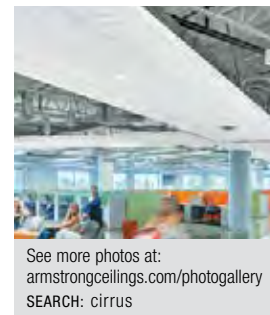
TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: cirrus)  
BPCS-4016-718

LEED® is a registered trademark of the U.S. Green Building Council  
 Declare™ is a service mark of The International Living Future Institute  
 UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
 © 2018 AWI Licensing LLC Printed in the United States of America



# CIRRUS® Second Look®

Scored Tegular  
medium texture



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: cirrus

Cirrus® Second Look® III panels with Suprafine® XL® 9/16" suspension system (Pgs. 466-467)

These medium-textured panels, with scored plank visual, provide the noise reduction and sound blocking of Total Acoustics® performance.

## KEY SELECTION ATTRIBUTES

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Cirrus® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Classic Cirrus texture
- Excellent score line painting for a clean visual
- USDA Certified Biobased Product – 94%

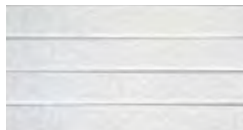
## FACE VIEW



Cirrus® Second Look® I panel – Scoring creates nominal 12" x 12" squares



Cirrus® Second Look® II panel – Scoring creates nominal 24" x 24" squares



Cirrus® Second Look® III panel – Scoring creates nominal 6" x 48" linear planks

## COLOR



White (WH)

## DETAILS (Other Suspension Systems compatible. Refer to listing on page 295.)



1. Cirrus® Second Look® III
2. Cirrus® Second Look® III with Suprafine® 9/16" suspension system

# CIRRUS® Second Look®

Scored Tegular  
medium texture

**GREENGUARD**  
Gold Certified  
(details below)



**Declare**<sup>SM</sup>  
Living Building  
Challenge Compliant

**SUSTAIN**<sup>®</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO **67%** RECYCLED CONTENT

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at  
armstrongceilings.com/greengenie

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)	
<b>CIRRUS® Second Look® I</b>				
15/16" Beveled Tegular	14	<b>512</b>	24 x 48 x 3/4"	
<b>CIRRUS Second Look II</b>				
9/16" Beveled Tegular	28	<b>510</b>	24 x 48 x 3/4"	
15/16" Beveled Tegular	14	<b>513</b>	24 x 48 x 3/4"	
<b>CIRRUS Second Look III</b>				
9/16" Beveled Tegular	28	<b>511</b>	24 x 48 x 3/4"	
15/16" Beveled Tegular	14	<b>514</b>	24 x 48 x 3/4"	

## PERFORMANCE SELECTION

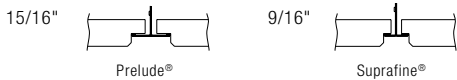
Dots represent high level of performance.

\$\$\$

UL Classified Acoustics	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	Warranty
NRC + CAC	NRC + CAC			Bio-Block						
0.65 35	<b>GOOD</b>	Class A	0.85	•	Std	•	Std	•	•	10-Yr
0.65 35	<b>GOOD</b>	Class A	0.85	•	Std	•	Std	•	•	10-Yr
0.65 35	<b>GOOD</b>	Class A	0.85	•	Std	•	Std	•	•	10-Yr
0.65 35	<b>GOOD</b>	Class A	0.85	•	Std	•	Std	•	•	10-Yr
0.65 35	<b>GOOD</b>	Class A	0.85	•	Std	•	Std	•	•	10-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type III, Form 1, Pattern E I K  
Fire Class A

**Humidity/Sag Resistance**  
Standard performance ceiling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.



**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
R Factor – 1.9 (BTU units)  
R Factor – 0.33 (Watts units)

**Design Consideration**  
Do not mix Cirrus® Second Look® with standard Cirrus items in the same room.

**Warranty**  
Details at armstrongceilings.com

**Weight; Square Feet/Carton**  
1.09 lbs/SF; 48 SF/ctn

**Minimum Order Quantity**  
1 carton

**Metric Items Available**  
512M, 510M, 513M, 511M, 514M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

# CIRRUS® Themes™

Critters™, Leaves™, Stars™, Things That Fly™  
& Under the Sea™ – Tegular  
medium texture

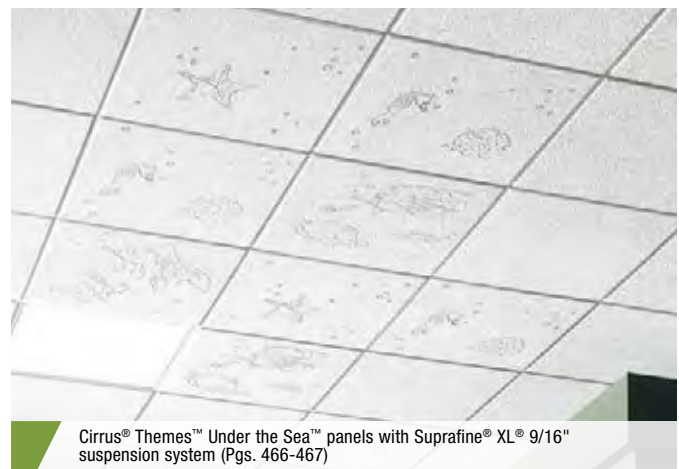
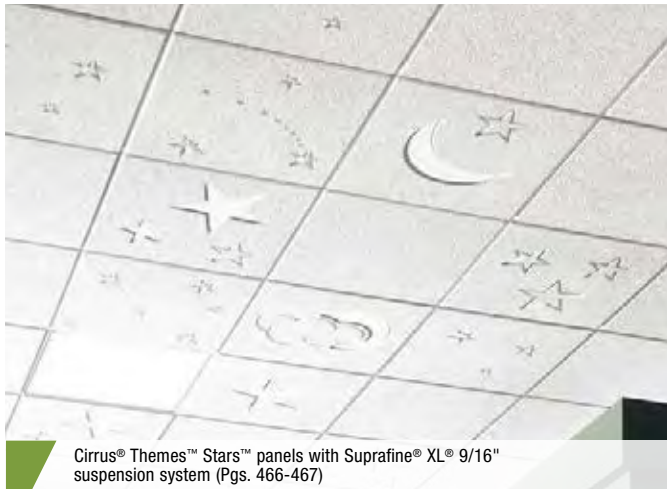


Cirrus® Themes™ ceiling panels have a playful design and bring fun to your project.

## KEY SELECTION ATTRIBUTES

- A variety of lighthearted panel designs on classic Cirrus texture; can be spot-painted
- Coordinating plain panels available
- USDA-Certified Biobased Product – 94%

## COLOR



# CIRRUS® Themes™

Critters™, Leaves™, Stars™, Things That Fly™  
& Under the Sea™ – Tegular  
medium texture

**67% RECYCLED CONTENT**

**LEED®** energy management construction waste to mgmt regional materials design for flexibility EPD

**GREENGUARD Gold Certified**  
(details below)

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
		<b>See Below</b>	24 x 24 x 3/4" □
		<b>See Below</b>	24 x 24 x 3/4" □

### CIRRUS® Themes™

15/16" Angled Tegular	13	<b>See Below</b>	24 x 24 x 3/4" □
9/16" Beveled Tegular	29, 44, 48, 52, 56	<b>See Below</b>	24 x 24 x 3/4" □

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

## PERFORMANCE SELECTION

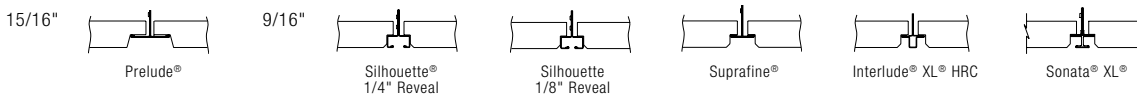
Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycled Program	Warranty
NRC	+ CAC	=									
N/A	N/A	-	Class A	0.86	•	Std	•	Std	•	•	10-Yr
N/A	N/A	-	Class A	0.86	•	Std	•	Std	•	•	10-Yr

CIRRUS Themes Critters	CIRRUS Themes Leaves	CIRRUS Themes Stars	CIRRUS Themes Things That Fly	CIRRUS Themes Under the Sea	Plain Panel
S500/S550	S600/S650	S400/S450	S700/S750	S800/S850	S299/S295 <b>Must use Item S295 or S299 for Coordinating Plain Panel</b>
S501/S551	S601/S651	S401/S451	S701/S751	S801/S851	
S502/S552	S602/S652	S411/S461	S703/S753	S802/S852	
S503/S553	S603/S653	S412/S462	S704/S754	S803/S853	
S510/S560	S604/S654	S414/S464	S706/S756	S804/S854	
S512/S562	S605/S655	S420/S470	S707/S757	S805/S855	
		S421/S471	S708/S758		

CIRRUS Themes Critters		CIRRUS Themes Leaves		CIRRUS Themes Stars		CIRRUS Themes Things That Fly		CIRRUS Themes Under The Sea	
15/16" Angled Tegular	9/16" Beveled Tegular	15/16" Angled Tegular	9/16" Beveled Tegular	15/16" Angled Tegular	9/16" Beveled Tegular	15/16" Angled Tegular	9/16" Beveled Tegular	15/16" Angled Tegular	9/16" Beveled Tegular
S550	S500	S650	S600	S450	S400	S750	S700	S850	S800
S551	S501	S651	S601	S451	S401	S751	S701	S851	S801
S552	S502	S652	S602	S460	S410	S752	S702	S852	S802
S553	S503	S653	S603	S461	S411	S753	S703	S853	S803
S560	S510	S654	S604	S462	S412	S754	S704	S854	S804
S562	S512	S655	S605	S463	S413	S755	S705	S855	S805
S295	S299	S295	S299	S464	S414	S756	S706	S295	S299
				S470	S420	S757	S707		
				S471	S421	S758	S708		
				S295	S299	S295	S299		

## SUSPENSION SYSTEMS



## PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

### ASTM E1264 Classification

Type III, Form 1, Pattern E I K Z (scored multi-patterned finish)  
S299, S295 – Type III, Form 1, Pattern E I Fire Class A

### Humidity/Sag Resistance

Standard performance ceiling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions

**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG UL 2818



### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Insulation Value

R Factor – 1.9 (BTU units)  
R Factor – 0.33 (Watts units)

### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Square Feet/Carton

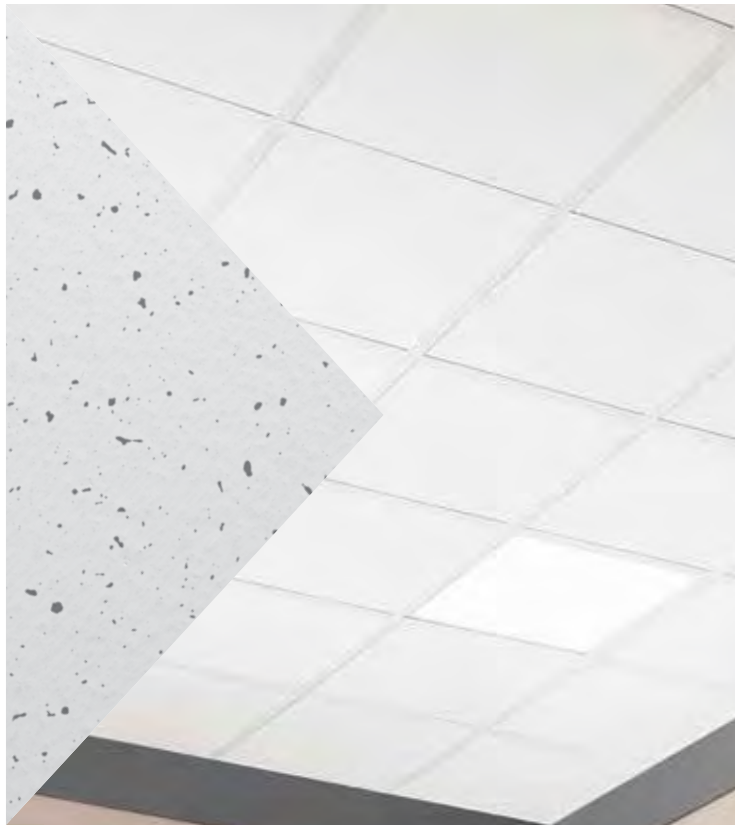
All design panels – 1.38 lbs/SF; 8 SF/ctn  
S295 – 1.09 lbs/SF; 48 SF/ctn  
S299 – 1.17 lbs/SF; 48 SF/ctn

### Minimum Order Quantity

1 carton

# CLEAN ROOM™ FL/ CLEAN ROOM™ VL & VL

Square Lay-in  
smooth texture



Clean Room™ FL panels with Clean Room 15/16" suspension system (Pg. 451)



Clean Room VL panels with Clean Room 1-1/2" suspension system (Pg. 451)



VL panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

Clean Room™ panels meet guidelines for controlled environments and USDA/FSIS guidelines.

## KEY SELECTION ATTRIBUTES

- Clean Rooms up to ISO Class 5 (Class 100) (excludes items 869, 871)
- Excellent sound blocking CAC (35-40)
- Durable – Washable, Scrubbable, Water-repellant, Impact-resistant, Scratch-resistant, Soil-resistant
- Non-directional visual reduces scrap and installation time
- 30-Year Limited System Warranty against visible sag, mold, and mildew
- 10-Year replacement panel available for items 1715, 1716, 1720, 1721



## TYPICAL APPLICATIONS

### Clean Room FL, Clean Room VL

- Clean Rooms
- Kitchens/food preparation areas
- Laboratories
- Healthcare
  - Patient rooms
  - Treatment rooms
  - Semi-restricted surgical areas
  - Emergency rooms

### VL (Perforated)

- Lavatories/restrooms
- Utility Rooms

## COLORS

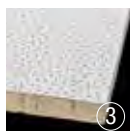
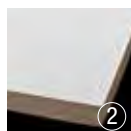


White (WH)  
(Clean Room VL  
& VL)



White with Gray Spatter  
(Clean Room FL)

## DETAILS (Other Suspension Systems compatible. Refer to listing on page 299.)



1. Clean Room™ FL
2. Clean Room™ VL
3. VL
4. Clean Room™ FL with 15/16" suspension system
5. Clean Room™ VL with 1-1/2" suspension system



# CLEAN ROOM™ FL/ CLEAN ROOM™ VL & VL

Square Lay-in  
smooth texture

UP TO **76%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED** energy management construction waste mgmt regional materials design for flexibility EPD

recyclable/extended producer resp. biobased materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

LOCATION DEPENDENT

**GREENGUARD**  
Gold Certified  
(details below)

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
--------------	--	----------	---------------------

### Clean Room™ FL Field Panel

15/16" or 1-1/2" Square Lay-in	1, 6, 7	<b>1715</b>	24 x 24 x 3/4" □
15/16" or 1-1/2" Square Lay-in	1, 6, 7	<b>1716</b>	24 x 48 x 3/4" □

### Clean Room™ FL Border Panel

15/16" or 1-1/2" Square Lay-in	1, 6, 7	<b>1720</b>	24 x 24 x 5/8" □
15/16" or 1-1/2" Square Lay-in	1, 6, 7	<b>1721</b>	24 x 48 x 5/8" □

### Size Capabilities

	Width	Length
15/16" or 1-1/2" Square Lay-in	<b>Made-to-Order Sizes (4-6 Wks)</b>	5/8" Thick 24"      24" - 48"

### Clean Room™ VL Unperforated

15/16" or 1-1/2" Square Lay-in	1, 6, 7	<b>868</b>	24 x 24 x 5/8" □
15/16" or 1-1/2" Square Lay-in	1, 6, 7	<b>870</b>	24 x 48 x 5/8" □

### VL Perforated (Not for Clean Rooms)

15/16" or 1-1/2" Square Lay-in	1	<b>869</b>	24 x 24 x 5/8" □
15/16" or 1-1/2" Square Lay-in	1	<b>871</b>	24 x 48 x 5/8" □

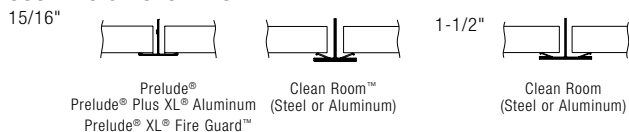
<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Also see Optima® Health Zone™ and Ultima® Health Zone™ for use in Clean Rooms.

## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash	Scrub	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	=	Class	RH90	Humi-Guard+			Durability								
0.55	35	-	Class A	0.79	•	•	•	•	•	•	•	•	•	•	-	•
0.55	35	-	Class A	0.79	•	•	•	•	•	•	•	•	•	•	-	•
N/A	35	-	Class A	0.79	•	•	•	•	•	•	•	•	•	Std	-	•
N/A	35	-	Class A	0.79	•	•	•	•	•	•	•	•	•	Std	-	•
N/A	N/A	-	Class A	0.79	•	•	•	•	•	•	•	•	•	Std	-	•
N/A	40	-	Fire Guard™	0.80	•	•	-	•	•	•	•	•	•	Std	-	•
N/A	40	-	Fire Guard	0.80	•	•	-	•	•	•	•	•	•	Std	-	•
0.55	35	-	Fire Guard	0.78	•	•	-	•	•	•	•	•	•	Std	-	•
0.55	35	-	Fire Guard	0.78	•	•	-	•	•	•	•	•	•	Std	-	•

## SUSPENSION SYSTEMS



NOTE: Clean Room Class 5 (Class 100) UL Classified for Acoustics on 15/16" suspension system only.

## PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

1715, 1716, 1720, 1721 – Soil-resistant polyester film  
868, 870, 869, 871 – Vinyl-faced membrane

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

### ASTM E1264 Classification

1715, 1716, 1720, 1721 – Type IV, Form 2, Pattern G H  
868, 870, – Type IV, Form 2, Pattern E  
869, 871 – Type IV, Form 2, Pattern C E  
Fire Class A

### Mold & Mildew Protection

Clean Room ceiling panels resist the growth of mold and mildew

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: clean room)  
BPCS-3044-519

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### VOC Emissions

**GREENGUARD Gold Certified**  
(Excludes FL Border and VL Panels) Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Insulation Value

R Factor – 1.5 (BTU units)  
R Factor – 0.26 (Watts units)

LEED® is a registered trademark of the U.S. Green Building Council  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Square Feet/Carton

1715 – 1.02 lbs/SF; 48 SF/ctn  
1716 – 1.02 lbs/SF; 64 SF/ctn  
1720 – 1.04 lbs/SF; 48 SF/ctn  
1721 – 1.17 lbs/SF; 64 SF/ctn  
868, 869 – 1.10 lbs/SF; 48 SF/ctn  
870, 871 – 1.11 lbs/SF; 64 SF/ctn

NOTE: For assistance on proper Clean Room installation, contact TechLine at 1 877 276-7876.

### Minimum Order Quantity:

1 carton, excludes other size panels.

### Metric Items Available

1715M, 1716M, 1720M, 1721M, 868M, 870M, 869M, 871M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

# CORTEGA®/CORTEGA® Second Look®

Square Lay-in & Tegular  
medium texture



Cortega® Angled Tegular panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)



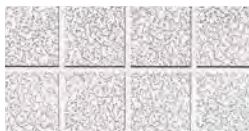
Cortega® Second Look® II panels with Suprafine® XL® 9/16" suspension system (Pgs. 466-467)

Cortega® panels offers a medium-textured, economical solution with standard acoustical absorption.

## KEY SELECTION ATTRIBUTES

- Economical
- Non-directional visual reduces scrap and installation time (excludes Second Look® items)
- Geometric Scored Visuals (Second Look items)

## FACE VIEW



Cortega® Second Look® I panels – Scoring creates nominal 12" x 12" squares



Cortega® Second Look® II panels – Scoring creates nominal 24" x 24" squares

**COLORS** Colored ceilings are dye-lotted and should be segregated by dye lot. Do not mix.



White (WH)



Tech Black (BL)  
Item 769

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 301.)



1. Cortega® Square Lay-in
2. Cortega® Beveled Tegular
3. Cortega® Second Look®
4. Cortega® Lay-in with Prelude 15/16" suspension system
5. Cortega® Beveled Tegular with Suprafine® 9/16" suspension system

# CORTEGA®/CORTEGA® Second Look®

Square Lay-in & Tegular  
medium texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **43%** CORTEGA  
**55%** CORTEGA  
2<sup>nd</sup> LOOK  
RECYCLED  
CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®  
energy management  
construction waste mgmt  
regional materials  
design for flexibility  
EPD  
recyclable/extended producer resp.  
biobased materials  
recycled content  
sourcing of raw materials  
material ingredient reporting  
low emitting materials  
lighting quality  
acoustics

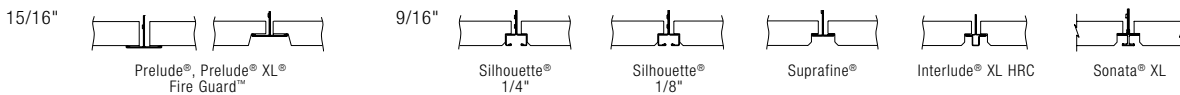
LOCATION DEPENDENT

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No. ♦	Dimensions (Inches)	
<b>CORTEGA® Square Lay-in</b>				
	1	<b>770</b>	24 x 24 x 5/8"	<input type="checkbox"/>
		<b>770M</b>	600 x 600 x 15mm	<input type="checkbox"/>
	1	<b>824</b>	24 x 24 x 5/8"	<input type="checkbox"/>
		<b>824M</b>	600 x 600 x 15mm	<input type="checkbox"/>
	1	<b>769</b> ♦	24 x 48 x 5/8"	<input type="checkbox"/>
		<b>769M</b>	600 x 1200 x 15mm	<input type="checkbox"/>
	1	<b>823</b>	24 x 48 x 5/8"	<input type="checkbox"/>
		<b>823M</b>	600 x 1200 x 15mm	<input type="checkbox"/>
1	<b>747</b>	24 x 48 x 5/8"	<input type="checkbox"/>	
	<b>773</b>	20 x 60 x 5/8"	<input type="checkbox"/>	
1	<b>773M</b>	500 x 1500 x 15mm	<input type="checkbox"/>	
	<b>772</b>	24 x 60 x 5/8"	<input type="checkbox"/>	
1	<b>772M</b>	600 x 1500 x 15mm	<input type="checkbox"/>	
	1	<b>Other Size Panels</b>	W: 12" – 30" / L: 18" – 72" 5/8" Thick	
<b>CORTEGA Tegular</b>				
	12	<b>704</b>	24 x 24 x 5/8"	<input type="checkbox"/>
		<b>704M</b>	600 x 600 x 15mm	<input type="checkbox"/>
	12	<b>816</b>	24 x 24 x 5/8"	<input type="checkbox"/>
9/16" Beveled Tegular 	29, 44, 48, 52, 56	<b>2195</b>	24 x 24 x 5/8"	<input type="checkbox"/>
		<b>2195M</b>	600 x 600 x 15mm	<input type="checkbox"/>
	29, 44, 48, 52, 56	<b>Other Size Panels</b>	W: 12" – 30" / L: 18" – 72" 5/8" Thick	
<b>CORTEGA® Second Look® I</b>				
15/16" Angled Tegular 	11	<b>2765</b>	24 x 48 x 3/4"	<input type="checkbox"/>
<b>CORTEGA Second Look II</b>				
15/16" Angled Tegular 	11	<b>2758</b>	24 x 48 x 3/4"	<input type="checkbox"/>
		<b>2767</b>	24 x 48 x 3/4"	<input type="checkbox"/>
9/16" Angled Tegular 	27	<b>2776</b>	24 x 48 x 3/4"	<input type="checkbox"/>

1 Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. ♦ Add 2-letter color suffix to item number when specifying or ordering (e.g., 769 B L).

## SUSPENSION SYSTEMS \* Item 2195 – CAC 31 on 9/16" Silhouette®.



NOTE: 9/16" Cortega Second Look items are installed using Suprafine® suspension systems only.

## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

**ASTM E1264 Classification**  
Type III, Form 2, Pattern C D

**Humidity/Sag Resistance**  
Standard performance ceiling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol. (Excludes 769BL)

**Primary (Embodied) Energy**  
See all LCA information on our EPD's.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
2195, 704, 816, 703 – R Factor – 1.6 (BTU units);  
R Factor – 0.28 (Watts units)



770, 772, 769, 773, 823, 824 – R Factor – 1.5 (BTU units);  
R Factor – 0.26 (Watts units)  
747, 2765, 2758, 2767, 2776 – R Factor – 1.5 (BTU units);  
R Factor – 0.26 (Watts units)

**Weight; Square Feet/ Carton**  
769 – 0.61 lbs/SF; 96 SF/ctn 823 – 1.09 lbs/SF; 48 SF/ctn  
704, 2195 – 0.63 lbs/SF; 747, 824 – 1.09 lbs/SF; 64 SF/ctn  
64 SF/ctn 2765, 2767 – 0.73 lbs/SF; 80 SF/ctn  
772, 773 – 0.63 lbs/SF; 100 SF/ctn  
703 – 0.65 lbs/SF; 80 SF/ctn 2758 – 1.26 lbs/SF; 64 SF/ctn  
770 – 0.69 lbs/SF; 64 SF/ctn 2776 – 0.70 lbs/SF; 80 SF/ctn  
816 – 1.08 lbs/SF; 48 SF/ctn

**Minimum Order Quantity**  
1 carton, excludes other size panels.

**Metric Items Available**  
770M, 824M, 769M, 773M, 772M, 2195M, 704M, 703M, 823M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: cortega)  
BPCS-3017/3022-718

LEED® is a registered trademark of the U.S. Green Building Council  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

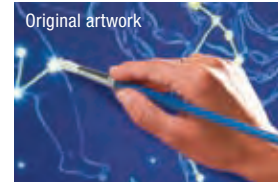
301



MINERAL FIBER

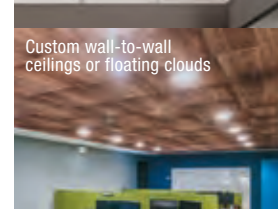
# CREATE!™ ULTIMA®, ULTIMA® Health Zone™, OPTIMA®

Square Lay-in, Tegular & Vector®  
fine texture



Original artwork

Ultima, Ultima Health Zone,  
or Optima Ceiling Panels



Custom wall-to-wall  
ceilings or floating clouds



armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

Ultima® Create!™ Vector® panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

Create!™ custom images are available on Ultima®, Ultima® Health Zone™, and Optima® panels. Great acoustics have never been so colorful!

## KEY SELECTION ATTRIBUTES

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Artistic designs have broad appeal and complement unique interior design
- Mix and match designs with standard Ultima, Ultima Health Zone, and Optima
- Excellent sound absorption – NRC 0.70 – 0.90
- The high performance benefits of Ultima or Optima fine-textured ceilings:
  - Washable, Soil-resistant (Ultima, Optima)
  - Water-repellent (Ultima Health Zone)
- Product is directional
- Custom samples available
- Can contribute to LEED® credits

## TYPICAL APPLICATIONS

- Classrooms
- Libraries/media centers
- Lobbies/reception areas
- Retail
- Restaurant
- Patient Rooms

## CREATE YOUR OWN UNIQUE, CUSTOM CEILING VISUAL USING COLOR AND ARTWORK

### Original Artwork Guidelines:

- Artwork must be vector-based
- Acceptable file types:
  - Adobe® Illustrator® – .ai
  - Encapsulated PostScript – .eps
  - Scalable Vector Graphics – .svg
- Acceptable Color Mode: CMYK

### Original Digital Image Requirements:

- Image must be 150 dpi at full print size
- Acceptable file types:
  - Joint Photographic Experts Group – .jpg
  - Tagged Image File Format – .tiff

### Solid Color Requirements:

- Custom colors are available
- Coordinating colors available on suspension systems and perimeter trims

# CREATE!™ ULTIMA®, ULTIMA® Health Zone™, OPTIMA®

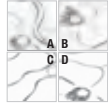
Square Lay-in, Tegular & Vector®  
fine texture

THEMES – Available on ULTIMA®, ULTIMA® HEALTH ZONE™, OPTIMA® CREATE!™ Panels

## Blooms



Single Panel  
Design 021

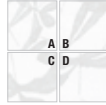


4-Panel Design  
Design 022 (Add  
A, B, C, or D for  
individual panel  
order)

## Dragonflies



Single Panel  
Design 051



4-Panel Design  
Design 052 (Add  
A, B, C, or D for  
individual panel  
order)

## Stars



Single Panel  
Design 041



Single Panel  
Design 042



Single Panel  
Design 043

## Bubbles



Single Panel  
Design 011



Single Panel  
Design 012



Single Panel  
Design 013

WOOD LOOKS – Available on ULTIMA HEALTH ZONE CREATE! Square Lay-in panels Due to printing limitations, shade may vary from actual product.



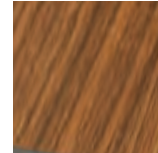
Bamboo (BA)



Barnwood (BW)



Light Cherry (LC)



Oak (OK)



Walnut (WN)

CALL, DON'T FALL – Available on ULTIMA HEALTH ZONE CREATE! Square Lay-in Panels

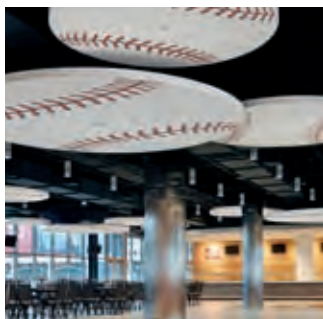
Reinforce safety in patient rooms by printing warning messages, in any language, on ceiling panels. Add your custom design or choose one of these.



More design options online at [armstrongceilings.com/calldontfall](http://armstrongceilings.com/calldontfall)

## Custom CREATE!™ Designs

Choose from the standard colors shown on the front of Create! 6" x 6" submittal samples. Keep in mind, sheen varies slightly depending on base panel selection (Ultima, Ultima Health Zone, Optima). Custom colors available. NOTE: Replacement panels may vary slightly in color due to material variations over time. Product could have slight color variation from run to run; adequate attic stock should be ordered.



Optima® Create!™ Vector® panels with Prelude® XL® suspension system



Ultima® Create!™ Vector® panels in Oak Wood Looks with Prelude® XL® suspension system



Ultima® Create!™ Custom panels with Prelude® XL® suspension system



Ultima® Create!™ Custom panels with Prelude® XL® suspension system

# CREATE!™ – ULTIMA®, ULTIMA Health Zone™, OPTIMA®

Square Lay-in, Tegular & Vector®  
fine texture

UP TO **76%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengene](http://armstrongceilings.com/greengene)

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

## VISUAL SELECTION

Edge Profile \_\_\_\_\_ Item \_\_\_\_\_  
Suspension System \_\_\_\_\_ No. ◆ Dimensions \_\_\_\_\_  
(Inches)

### ULTIMA® or OPTIMA® CREATE!™ Square Lay-in

for 15/16" Prelude® XL® **Z1910UC1** 24 x 24 x 3/4" □



**Z33520C1** 24 x 24 x 1" □

### ULTIMA® CREATE!™ Tegular

for 9/16" Silhouette® XL® ONLY; 1/4" or 1/8" Reveal **Z1912UC1** 24 x 24 x 3/4" □



### ULTIMA® or OPTIMA® CREATE!™ Vector®

for 15/16" Prelude XL (White only) **Z1920UC1** 24 x 24 x 3/4" □



**Z39010C1** 24 x 24 x 7/8" □

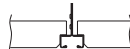
### ULTIMA® Health Zone™ CREATE!™ Square Lay-in

for 15/16" Prelude XL **Z1935UC1\_ \_** ◆ 24 x 24 x 3/4" □



### ULTIMA® Health Zone™ CREATE!™ Tegular

for 9/16" Silhouette XL ONLY; 1/4" or 1/8" Reveal **Z1936UC1** 24 x 24 x 3/4" □



NOTE: Replacement panels may vary slightly in color due to material variations over time. Product could have slight color variation from run to run; adequate attic stock should be ordered. Ultima® Health Zone™ ceilings have different scrim surface than Ultima® or Optima® which may affect color.

## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

NRC	CAC	Total Acoustics <sup>1</sup>	Fire Performance	Mold & Mildew Protection	Sag Resist	Water Repel	Wash	Soil	Recycled Content	Recycle Program	30-Yr Warranty
0.75	35	<b>BETTER</b>	Class A	•	•	–	•	•	•	•	•
0.90	26	–	Class A	•	•	–	•	•	•	•	•
0.75	35	<b>BETTER</b>	Class A	•	•	–	•	•	•	•	•
0.70	33	–	Class A	•	•	–	•	•	•	•	•
0.80	26	–	Class A	•	•	–	•	•	•	•	•
0.70	38	<b>BETTER</b>	Class A	•	•	•	•	•	•	•	•
0.70	38	<b>BETTER</b>	Class A	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+) Based on image/color coverage, NRC may vary slightly. ◆ Add 2-letter color suffix to item when specifying or ordering standard Wood Looks items. (e.g., Z1935UC1 L C)

## SUSPENSION SYSTEMS AND EDGE DETAILS



1/4"

**Vector® Panel and Prelude® XL®**

(White suspension required for Vector)



9/16"

**Tegular Panel and Silhouette® XL®**  
1/4" Reveal



9/16"

**Tegular Panel and Silhouette® XL®**  
1/8" Reveal



15/16"

**Lay-in Panel and Prelude® XL® or 360° Painted Grid**

## COLORS



Any Color Available on Suspension Systems and Perimeter Trims

## PHYSICAL DATA

### Material

Ultima®/Ultima Health Zone: Wet-formed mineral fiber  
Optima: Fiberglass with DuraBrite® acoustically transparent membrane with CAC-backing

### Surface Finish

Factory-applied latex paint with UV printing

### Fire Performance

ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

### ASTM E1264 Classification

Ultima/Ultima Health Zone: Type III, Form 2, Pattern E  
Optima: Type XII, Form 2, Pattern E  
Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew. Health Zone ceiling panels with BioBlock® Plus performance also resist odor and stain causing bacterial growth.

### Acoustical Performance

CAC testing conducted using Silhouette® suspension system.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Insulation Value

Ultima/Ultima Health Zone:  
R Factor – 1.6 (BTU units)  
R Factor – 0.28 (Watts units)  
Optima:  
R Factor – 4.0 (BTU units)  
R Factor – 0.70 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. 1-year limited warranty on color. Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Square Feet/Carton

Ultima/Ultima Health Zone: 1.05 lbs/SF; 16 SF/ctn  
Optima: 0.55 lbs/SF; 16 SF/ctn

### Minimum Order Quantity:

1 carton

# DESIGNER™

Square Lay-in, Tegular  
coarse texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **42%** RECYCLED CONTENT

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

\$\$\$\$



Designer™ Lay-in panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

Designer™ panels offer a coarse-textured visual with standard absorption in an economical ceiling panel.

### KEY SELECTION ATTRIBUTES

- Standard sound absorption
- Cost-effective

### COLOR



White  
(WH)

### VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)	
<b>DESIGNER Square Lay-in</b>				
15/16" Square Lay-in	1	<b>735</b>	24 x 24 x 5/8"	<input type="checkbox"/>
	1	<b>734</b>	24 x 48 x 5/8"	<input type="checkbox"/>
<b>DESIGNER Tegular</b>				
15/16" Angled Tegular	13	<b>737</b>	24 x 24 x 5/8"	<input type="checkbox"/>

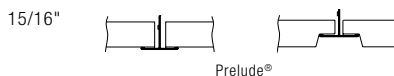
### PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		=	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	Warranty
NRC	CAC											
0.55	30	-	Class A	0.81	-	Std	-	Std	Std	•	1-Yr	
0.55	30	-	Class A	0.81	-	Std	-	Std	Std	•	1-Yr	
0.55	33	-	Class A	0.81	-	Std	-	Std	Std	•	1-Yr	

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### SUSPENSION SYSTEMS



### PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
Class A: Flame Spread Index 25 or less (UL labeled) per ASTM E1264

**ASTM E1264 Classification**  
Type III, Form 2, Pattern F  
Fire Class A

**Humidity/Sag Resistance**  
Standard performance ceiling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Insulation Value**  
R Factor – 1.5 (BTU units)  
R Factor – 0.26 (Watts units)

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
[UL.COM/GG](http://UL.COM/GG)  
UL 2818



**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/ Carton**  
734 – 0.80 lbs/SF; 80 SF/ctn  
735, 737 – 0.80 lbs/SF; 64 SF/ctn

**Minimum Order Quantity**  
1 carton

**Metric Items Available**  
735M, 734M, 737M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: designer)  
BPCS-3024-718

LEED® is a registered trademark of the U.S. Green Building Council  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

305

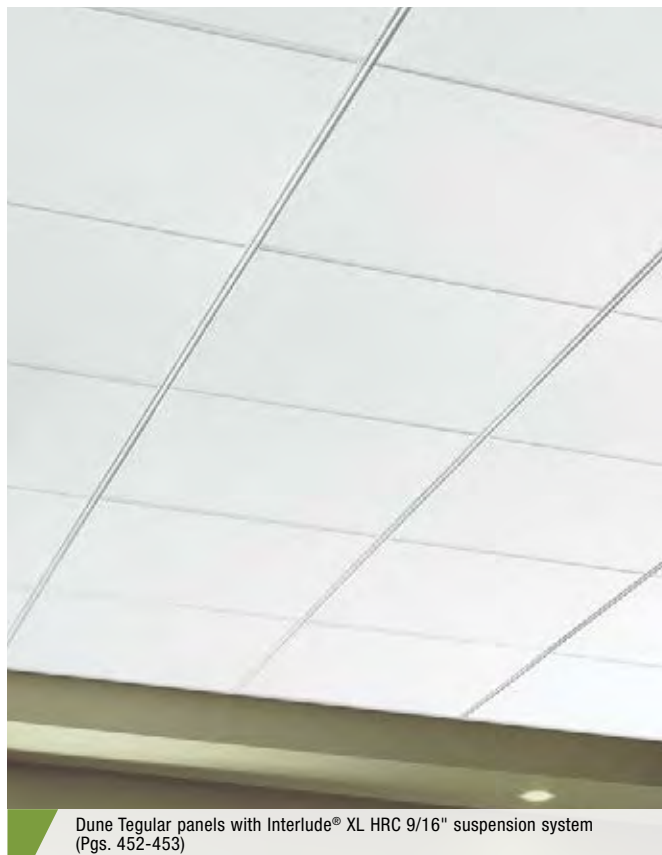
MINERAL FIBER

# DUNE™

## Square Lay-in & Tegular fine texture



Dune™ Square Lay-in panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)



Dune Tegular panels with Interlude® XL HRC 9/16" suspension system (Pgs. 452-453)

This durable, fine-textured panel offers a non-directional visual.

### KEY SELECTION ATTRIBUTES



- Dune™ panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Upgrade look at a modest price
- Ceiling-2-Ceiling™ Post-consumer Recycled Content options: Items 1773HRC, 1774HRC, 1775HRC, 1776HRC, 1777HRC (check [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie))
- USDA-Certified Biobased Product – 100%
- Durable – Scratch-resistant
- Non-directional visual reduces scrap and installation time
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 30-Year Limited System Warranty against visible sag (excludes items 1796 and 1798), mold and mildew

- 10-Year replacement panel available for items 1772, 1773, 1774, 1775, 1776

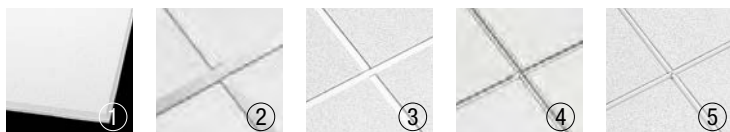


### COLOR



White (WH)

### DETAILS (Other Suspension Systems compatible. Refer to listing on page 307.)



- Dune™ Tegular
- Dune™ Square Lay-in with Prelude® 15/16" suspension system
- Dune™ Tegular with Suprafine® 9/16" suspension system
- Dune™ Tegular with Silhouette® XL® 9/16" suspension system with 1/4" reveal
- Dune™ Tegular with Interlude® XL® HRC 9/16" suspension system



# DUNE™

## Square Lay-in & Tegalur fine texture



**GREENGUARD**  
Gold Certified  
(details below)

**Declare**™  
Living Building  
Challenge Compliant



**SUSTAIN**™  
High Performance  
Sustainable  
Ceiling Systems

UP TO **56%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

### VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)	
<b>DUNE™ Square Lay-in</b>				
15/16" Square Lay-in	1	<b>1772</b>	24 x 24 x 5/8"	<input type="checkbox"/>
	1	<b>1850</b>	24 x 24 x 5/8"	<input type="checkbox"/>
	1	<b>1773</b> <b>1773HRC</b>	24 x 48 x 5/8"	<input type="checkbox"/>
	1	<b>1851</b>	24 x 48 x 5/8"	<input type="checkbox"/>
	1	<b>1796</b>	20 x 60 x 3/4"	<input type="checkbox"/>
	1	<b>1798</b>	30 x 30 x 3/4"	<input type="checkbox"/>
<b>DUNE™ Size Capabilities</b>				
15/16" Square Lay-in		<b>Made-to-Order Sizes (4-6 Wks)</b>	<b>Width</b> 3/4" or 5/8" Thick 12" - 30"	<b>Length</b> 18" - 72"

### PERFORMANCE SELECTION

Dots represent high level of performance.

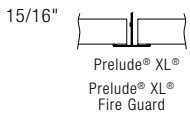
\$\$\$

UL Classified Acoustics	NRC + CAC	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
0.50	30	-	Class A	0.83	•	•	•	•	Std	•	•
0.50	35	-	Fire Guard™	0.83	•	•	•	•	Std	•	•
0.50	30	-	Class A	0.83	•	•	•	•	Std	•	•
0.50	35	-	Fire Guard	0.83	•	•	•	•	Std	•	•
0.50	35	-	Class A	0.83	•	Std	•	•	•	•	1-Yr
0.50	35	-	Class A	0.83	•	Std	•	•	•	•	1-Yr
N/A	N/A	-	Class A	0.83	•	Std	•	•	Std	•	1-Yr

**MORE ITEMS** ▶

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### SUSPENSION SYSTEMS



### PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

**ASTM E1264 Classification**  
Type III, Form 2, Pattern C E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes large made-to-order panels.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**Acoustical Performance**  
CAC testing conducted using Silhouette® suspension system.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
[UL.COM/GG](http://UL.COM/GG)  
UL 2818



**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

**Insulation Value**  
R Factor - 1.6 (BTU units)  
R Factor - 0.28 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com) (Excludes items 1796, 1798, and large other size panels)

**Weight; Square Feet/ Carton**  
1772 - 0.94 lbs/SF; 64 SF/ctn  
1773 - 0.88 lbs/SF; 64 SF/ctn  
1796 - 1.33 lbs/SF; 67 SF/ctn  
1798 - 1.14 lbs/SF; 50 SF/ctn  
1850 - 1.19 lbs/SF; 48 SF/ctn  
1851 - 1.22 lbs/SF; 64 SF/ctn

**Minimum Order Quantity**  
1 carton, excludes made-to-order panels

**Metric Items Available**  
1772M, 1850M, 1773M, 1851M, 1796M, 1798M - Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

# DUNE™

## Square Lay-in & Tegular

fine texture



**GREENGUARD**  
Gold Certified  
(details below)

**Declare™**  
Living Building  
Challenge Compliant



**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems

UP TO **56%** RECYCLED CONTENT

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengene](http://armstrongceilings.com/greengene)

LOCATION DEPENDENT

### VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)	
<b>DUNE™ Tegular</b>				
15/16" Angled Tegular	12	<b>1774</b>	24 x 24 x 5/8"	<input type="checkbox"/>
		<b>1774HRC</b>	24 x 24 x 5/8"	<input type="checkbox"/>
12	12	<b>1853</b>	24 x 24 x 5/8"	<input type="checkbox"/>
		<b>1776</b>	24 x 48 x 5/8"	<input type="checkbox"/>
9/16" Beveled Tegular	29, 44, 48, 52, 56	<b>1775</b>	24 x 24 x 5/8"	<input type="checkbox"/>
		<b>1775HRC</b>	24 x 24 x 5/8"	<input type="checkbox"/>
29, 44, 48, 52, 56	12	<b>1852</b>	24 x 24 x 5/8"	<input type="checkbox"/>
		<b>1777</b>	24 x 48 x 5/8"	<input type="checkbox"/>
29, 44, 48, 52, 56	12	<b>1777HRC</b>	24 x 48 x 5/8"	<input type="checkbox"/>
<b>DUNE™ Size Capabilities</b>				
15/16" & 9/16" Angled Tegular	<b>Made-to-Order Sizes (4-6 Wks)</b>	<b>Width</b>		<b>Length</b>
		3/4" or 5/8" Thick		
		12" - 30"	18" - 72"	

### PERFORMANCE SELECTION

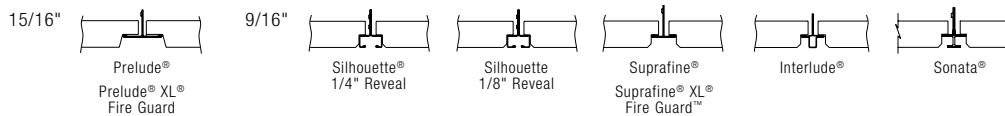
Dots represent high level of performance.

\$\$\$

UL Classified Acoustics	NRC + CAC	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
UL			Fire	Light	Bio-Block	Humi-Guard+		Durability			
0.50	35	-	Class A	0.83	•	•	•	•	Std	•	•
0.50	35	-	Fire Guard	0.83	•	•	•	•	Std	•	•
0.50	35	-	Class A	0.83	•	•	•	•	Std	•	•
0.50	35	-	Class A	0.83	•	•	•	•	Std	•	•
0.50	35	-	Fire Guard	0.83	•	•	•	•	Std	•	•
0.50	35	-	Class A	0.83	•	•	•	•	Std	•	•
N/A	N/A	-	Class A	0.83	•	Std	•	•	Std	•	1-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### SUSPENSION SYSTEMS



### PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

**ASTM E1264 Classification**  
Type III, Form 2, Pattern C E Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes large made-to-order panels.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**Acoustical Performance**  
CAC testing conducted using Silhouette® suspension system.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial)



recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

**Insulation Value**  
R Factor – 1.6 (BTU units)  
R Factor – 0.28 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com) (Excludes items 1796, 1798, and large other size panels)

**Weight; Square Feet/Carton**  
1774, 1775 – 0.75 lbs/SF; 64 SF/ctn  
1776, 1777 – 0.75 lbs/SF; 64 SF/ctn  
1852, 1853 – 1.20 lbs/SF; 48 SF/ctn

**Minimum Order Quantity**  
1 carton, excludes made-to-order panels

**Metric Items Available**  
1775M, 1777M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



MINERAL FIBER

# DUNE™ Second Look®

Scored Tegular  
fine texture

**GREENGUARD**  
Gold Certified  
(details below)

**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems

UP TO **41%** RECYCLED CONTENT

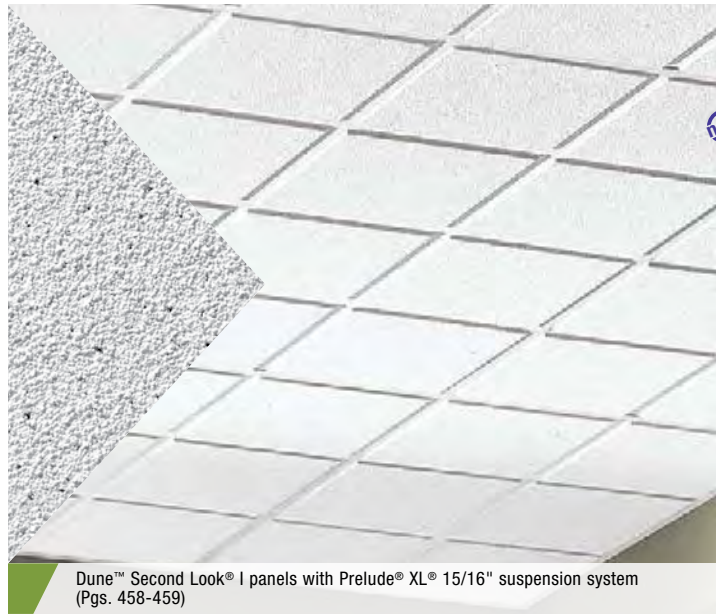
**LEED®**

- energy management
- construction waste to reuse
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

\$\$\$



Dune™ Second Look® I panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

This fine-textured visual offers geometric scored visuals.

### KEY SELECTION ATTRIBUTES

- Upgrade look at a modest price
- Dune™ Second Look® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- USDA Certified Biobased Content – 100%
- Durable – Scratch-resistant
- 30-Year Limited System Warranty against visible sag, mold, and mildew
- 10-Year replacement panel available for item 2711, 2712, 2722



### FACE VIEW



Second Look I panel – Scoring creates nominal 12" x 12" squares



Second Look II panel – Scoring creates nominal 24" x 24" squares

### COLOR



### VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdws">armstrongceilings.com/catdws</a>	Item No.	Dimensions (Inches)
<b>DUNE™ Second Look® I</b>			
	11	<b>2711</b>	24 x 48 x 3/4" 
<b>DUNE Second Look II</b>			
	11	<b>2712</b>	24 x 48 x 3/4" 
	27	<b>2722</b>	24 x 48 x 3/4" 

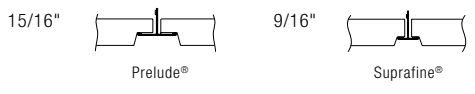
### PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		CAC	=	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+												
0.50	35	•		–	Class A	0.83	•	•	•	•	Std	•	•
0.50	35	•		–	Class A	0.83	•	•	•	•	Std	•	•
0.50	35	•		–	Class A	0.83	•	•	•	•	Std	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### SUSPENSION SYSTEMS



### PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type III, Form 2, Pattern C E K  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Insulation Value**  
R Factor – 1.6 (BTU units)  
R Factor – 0.28 (Watts units)



**Design Consideration**  
Do not mix Dune™ Second Look® with standard Dune panels in the same room.

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
1.00 lbs/SF; 80 SF/ctn

**Minimum Order Quantity**  
1 carton

**Metric Items Available**  
2711M, 2722M, 2712M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: dune)  
BPCS-3223-1018

LEED® is a registered trademark of the U.S. Green Building Council  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America



309



MINERAL FIBER

# FINE FISSURED™

Tile  
medium texture



Fine Fissured™ tile with Prelude® Concealed 15/16" suspension system (Pg. 454)

Fine Fissured™ panels offer a non-directional visual, standard acoustics, and concealed or tongue-and-groove installation.

## KEY SELECTION ATTRIBUTES

- 12" x 12" concealed tile option provides grid-hiding monolithic installation
- Non-directional visual reduces scrap and installation time
- 30-Year Limited System Warranty against visible sag, mold and mildew

## COLORS



White  
(WH)

# FINE FISSURED™

Tile  
medium texture

**GREENGUARD**  
Gold Certified  
(details below)



**56% RECYCLED CONTENT**

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
<b>FINE FISSURED™ Tile</b>			
Concealed	66	<b>746</b>	12 x 12 x 5/8" □
			
Tongue-and-Groove	63	<b>741</b>	12 x 12 x 1/2" □
			

## PERFORMANCE SELECTION


Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	Warranty
NRC	+ CAC	=		Light Reflect	Bio-Block	Humi-Guard+					
0.55	35	-	Class A	0.85	•	•	•	Std	•	•	30-Yr
0.55	N/A	-	Class A	0.85	•	•	•	Std	•	•	30-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Splines not included in carton. Not recyclable when glue-up installation method is used.

## SUSPENSION SYSTEM


15/16" Concealed



Prelude® Concealed or Adhesive

## STAPLE UP/ADHESIVE

Tongue-and-Groove



## PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled.)

### ASTM E1264 Classification

Type III, Form 2, Pattern C E  
Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions

**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
[UL.COM/GG](http://UL.COM/GG)  
UL 2818



### Insulation Value

R Factor – 1.6 (BTU units)  
R Factor – 0.28 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Square Feet/Carton

741 – 0.75 lbs/SF; 40 SF/ctn  
746 – 0.90 lbs/SF; 40 SF/ctn

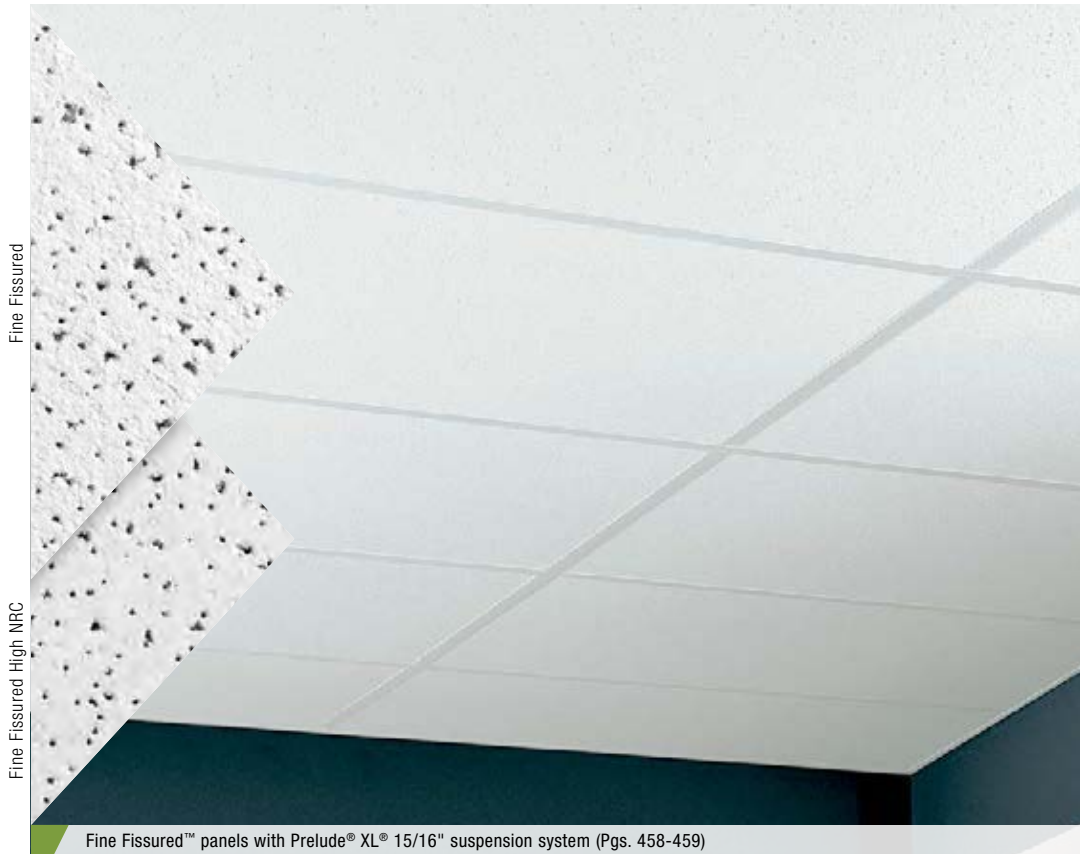
### Minimum Order Quantity

1 carton



# FINE FISSURED™ FINE FISSURED™ High NRC

Square Lay-in  
medium texture



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: fine fissured

Fine Fissured™ panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

This economical, non-directional panel is available in standard and high-acoustical absorption options.

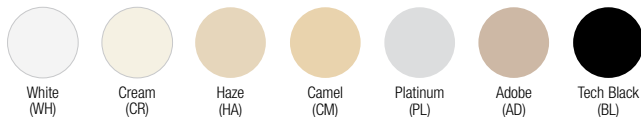
## KEY SELECTION ATTRIBUTES

- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance
- Meets ANSI S12.60 Classroom Guidelines: Items 1713, 1714, 1810, 1811
- Economical
- Non-directional visual reduces scrap and installation time
- 30-Year Limited System Warranty against visible sag (excludes item 1738), mold and mildew
- 10-Year replacement panel available for items 1713, 1714, 1728



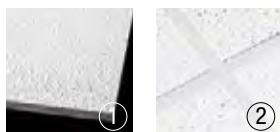
## COLORS

Due to printing limitations, shade may vary from actual product.



Items 1728 and 1729 are available in colors. Item 1713 is available in Black and White. All other items are available in White only. Colored ceilings are dye-lotted and should be segregated by dye lot. Do not mix.

## DETAILS



1. Fine Fissured™ Square Lay-in
2. Fine Fissured™ Square Lay-in with Prelude® 15/16" suspension system

# FINE FISSURED™ FINE FISSURED™ High NRC

Square Lay-in  
medium texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **73%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

## VISUAL SELECTION

## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No. ♦	Dimensions (Inches)	UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty	
				NRC	CAC												
<b>FINE FISSURED™ High NRC</b>																	
15/16" Square Lay-in	1	<b>1754</b>	24 x 24 x 7/8"	□	0.75	35	<b>BETTER</b> ( )))	170	Class A	0.86	•	•	•	Std	•	•	•
					•	•											
15/16" Square Lay-in	1	<b>1755</b>	24 x 48 x 7/8"	□	0.75	35	<b>BETTER</b> ( )))	170	Class A	0.86	•	Std	•	Std	•	•	1-Yr
					•	•											
<b>FINE FISSURED™</b>																	
15/16" Square Lay-in	1	<b>1736</b>	20 x 60 x 5/8"	□	0.55	35	-	-	Class A	0.85	•	•	•	Std	Std	•	•
					•	•											
15/16" Square Lay-in	1	<b>1728</b>	24 x 24 x 5/8"	□	0.55	33	-	-	Class A	0.85*	•	•	•	Std	Std	•	•
					•	•											
15/16" Square Lay-in	1	<b>465</b>	24 x 24 x 5/8"	□	0.55	35	-	-	Class A	0.85*	•	•	•	Std	Std	•	•
					•	•											
15/16" Square Lay-in	1	<b>1831</b>	24 x 24 x 5/8"	□	0.55	35	-	-	Fire Guard™	0.85	•	•	•	Std	•	•	•
					•	•											
15/16" Square Lay-in	1	<b>1729</b>	24 x 48 x 5/8"	□	0.55	35	-	-	Class A	0.85*	•	•	•	Std	Std	•	•
					•	•											

[MORE ITEMS ►](#)

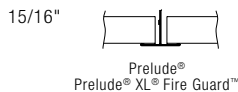
<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

♦ Add 2-letter color suffix to item number when specifying or ordering (e.g., 1729 **B** L)

\* Light reflectance number for white only.

## SUSPENSION SYSTEMS



## PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

### ASTM E1264 Classification

Type III, Form 2, Pattern C E; Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions

**GREENGUARD Gold Certified**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol. (Except 1728, 1729 in colors)

### Acoustical Performance

CAC testing conducted using Prelude® XL® suspension system.

### Primary (Embodied) Energy

See all LCA information on our EPDs.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Insulation Value

Square Lay-in Items

R Factor – 1.5 (BTU units)

PRODUCT CERTIFIED  
FOR LOW CHEMICAL  
EMISSIONS  
UL.COM/GG  
UL 2818



### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at [armstrongceilings.co](http://armstrongceilings.co)

### Weight; Square Feet/Carton

1728 – 0.70 lbs/SF; 64 SF/ctn  
465 – 0.70 lbs/SF; 64 SF/ctn  
1729 – 0.70 lbs/SF; 96 SF/ctn  
1736 – 0.93 lbs/SF; 100 SF/ctn  
1754 – 1.08 lbs/SF; 48 SF/ctn  
1755 – 1.08 lbs/SF; 48 SF/ctn  
1831 – 1.05 lbs/SF; 64 SF/ctn

### Minimum Order Quantity

1 carton, excludes made-to-order panels

### Metric Items Available

1728M, 1729M, 1736M, 1754M, 1755M, 1831M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

# FINE FISSURED™ FINE FISSURED™ High NRC

Square Lay-in  
medium texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **73%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED** energy management construction waste mgmt regional materials design for flexibility EPD recyclable/extended producer resp. biobased materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

LOCATION DEPENDENT

## VISUAL SELECTION

**Edge Profile** **Susp. Dwg.** **Item No.** **Dimensions (Inches)**  
Pgs. 474-478  
[armstrongceilings.com/catdwgs](http://armstrongceilings.com/catdwgs)

### FINE FISSURED™

15/16" Square Lay-in	1	<b>466</b>	24 x 48 x 5/8"	
	1	<b>1830</b>	24 x 48 x 5/8"	
	1	<b>1737</b>	24 x 60 x 5/8"	
	1	<b>1738</b>	30 x 60 x 3/4"	

### FINE FISSURED™ Size Capabilities

	Width	Length
15/16" Square Lay-in	<b>Made-to-Order Sizes (4-6 Wks)</b> 3/4" or 5/8" Thick 12" - 30"	18" - 72"

## PERFORMANCE SELECTION

Dots represent high level of performance.

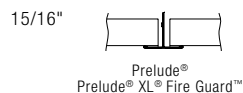
\$\$\$

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	NRC + CAC	AC	Fire	Light	Bio-Block	Humi-Guard+					
0.55	35	-	-	Class A	0.85*	•	•	•	Std	Std	•	•
0.55	35	-	-	Fire Guard	0.85	•	•	•	Std	•	•	•
0.55	35	-	-	Class A	0.85	•	•	•	Std	Std	•	•
0.55	35	-	-	Class A	0.85	•	Std	•	Std	Std	•	1-Yr
N/A	N/A	-	-	Class A	0.85	•	Std	•	Std	Std	•	1-Yr

**MORE ITEMS** ▶

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)  
 • Add 2-letter color suffix to item number when specifying or ordering (e.g., 1729 **B L**)  
 • Light reflectance number for white only.

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).  
 Fire Guard: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

**ASTM E1264 Classification**  
Type III, Form 2, Pattern C E; Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excluding Item 1738 and other size panels.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
 Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Acoustical Performance**  
CAC testing conducted using Prelude® XL® suspension system.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
Square Lay-in Items  
R Factor - 1.5 (BTU units)  
R Factor - 0.26 (Watts units)



**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com) (Excludes items 1755, 1738, and other size panels)

**Weight; Square Feet/Carton**  
 466 - 0.70 lbs/SF; 96 SF/ctn  
 1738 - 0.80 lbs/SF; 75 SF/ctn  
 1737 - 0.93 lbs/SF; 100 SF/ctn  
 1830 - 1.05 lbs/SF; 64 SF/ctn

**Minimum Order Quantity**  
1 carton, excludes made-to-order panels

**Metric Items Available**  
1737M, 1738M, 1810M, 1811M, 1830M - Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



MINERAL FIBER



# FINE FISSURED™ FINE FISSURED™ High NRC

Square Lay-in  
medium texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **73%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED® energy management, construction waste mgmt, regional materials, design for flexibility, EPD, recyclable/extended producer resp., bio-based materials, recycled content, sourcing of raw materials, material ingredient reporting, low emitting materials, lighting quality, acoustics

LOCATION DEPENDENT

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No. ♦	Dimensions (Inches)
--------------	--	------------	---------------------

### School Zone® FINE FISSURED™

15/16" Square Lay-in	1	<b>1713</b> <b>1713BL</b>	24 x 24 x 3/4"	<input type="checkbox"/>
	1	<b>1810</b>	24 x 24 x 3/4"	<input type="checkbox"/>
15/16" Square Lay-in	1	<b>1714</b>	24 x 48 x 3/4"	<input type="checkbox"/>
	1	<b>1811</b>	24 x 48 x 3/4"	<input type="checkbox"/>

Size Capabilities	Width	Length
15/16" Square Lay-in	<b>Made-to-Order Sizes (4-6 Wks)</b> 3/4" Thick	12" - 30"    18" - 72"

## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	= NRC + CAC	AC	Fire	Light	Bio-Block	Humi-Guard+					
0.70	35	<b>BETTER</b>	–	Class A	0.85*	•	•	•	Std	•	•	•
•	•			Fire Guard	0.85	•	•	•	Std	•	•	•
0.70	40	<b>BETTER</b>	–	Class A	0.85	•	•	•	Std	•	•	•
•	•			Fire Guard	0.85	•	•	•	Std	•	•	•
0.70	40	<b>BETTER</b>	–	Class A	0.85	•	•	•	Std	•	•	•
•	•			Fire Guard	0.85	•	•	•	Std	•	•	•
N/A	N/A	–	–	Fire Guard	0.85	•	•	•	Std	Std	•	•

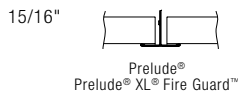
<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

♦ Add 2-letter color suffix to item number when specifying or ordering (e.g., 1729 **B L**)

\* Light reflectance number for white only.

## SUSPENSION SYSTEMS



## PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

### ASTM E1264 Classification

Type III, Form 2, Pattern C E; Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excluding Item 1738 and other size panels.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions

**GREENGUARD Gold Certified**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### Acoustical Performance

CAC testing conducted using Prelude® XL® suspension system.

### Primary (Embodied) Energy

See all LCA information on our EPDs.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Insulation Value

Square Lay-in Items  
R Factor – 1.5 (BTU units)  
R Factor – 0.26 (Watts units)

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com) (Excludes items 1755, 1738, and other size panels)

### Weight; Square Feet/Carton

1713, 1810 – 1.31 lbs/SF; 48 SF/ctn  
1714, 1811 – 1.38 lbs/SF; 64 SF/ctn

### Minimum Order Quantity

1 carton, excludes made-to-order panels

### Metric Items Available

1737M, 1738M, 1810M, 1811M, 1830M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

# FINE FISSURED™ FINE FISSURED™ High NRC

Tegular  
medium texture



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: fine fissured

Fine Fissured™ Tegular panels with Prelude® XL® suspension system (Pgs. 458-459)

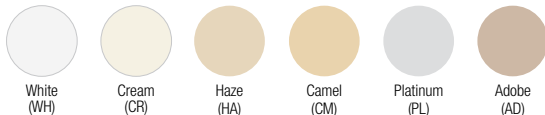
This economical, non-directional panel available in standard and high acoustical absorption options.

## KEY SELECTION ATTRIBUTES

- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics performance
- Options provide excellent combination of acoustical performance NRC (up to 0.75), CAC (up to 35), and Articulation Class (170)
- Fine Fissured™ School Zone® items help comply with ANSI S12.60 Classroom Guidelines
- Non-directional visual reduces scrap and installation time
- 30-Year Limited System Warranty against visible sag, mold, and mildew
- 10-Year replacement panel available for items 1732,1734

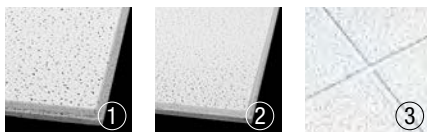


**COLORS** Due to printing limitations, shade may vary from actual product.



Item 1732 is available in colors. All other items are available in White only. Colored ceilings are dye-lotted and should be segregated by dye lot. Do not mix.

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 317.)



1. Fine Fissured™ Beveled Tegular
2. Fine Fissured™ Angled Tegular
3. Fine Fissured™ Tegular with Suprafine® 9/16" suspension system

# FINE FISSURED™ FINE FISSURED™ High NRC

Tegular  
medium texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **73%** RECYCLED CONTENT

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- low biased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

Edge Profile      Susp. Dwg. Pgs. 474-478  
[armstrongceilings.com/catdws](http://armstrongceilings.com/catdws)

Item No. ♦      Dimensions (Inches)

### FINE FISSURED™ High NRC

15/16" Angled Tegular 

13      **1756**      24 x 24 x 7/8" 


13      **1757**      24 x 48 x 7/8" 


9/16" Beveled Tegular 


29, 44, 48, 52, 56      **1758**      24 x 24 x 7/8" 


29, 44, 48, 52, 56      **1759**      24 x 48 x 7/8" 

### FINE FISSURED™

15/16" Angled Tegular 

12      **1732\_**      24 x 24 x 5/8" 

12      **1833**      24 x 24 x 5/8" 

12      **1733**      24 x 48 x 5/8" 

## PERFORMANCE SELECTION

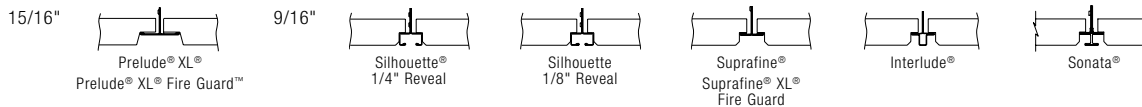
Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	NRC + CAC =	AC	Class	Light Reflect	Bio-Block	Humi-Guard+					
0.75	35	<b>BETTER</b>	170	Class A	0.86	•	•	•	Std	•	•	•
0.75	35	<b>BETTER</b>	170	Class A	0.86	•	Std	•	Std	•	•	1-Yr
0.75	35	<b>BETTER</b>	170	Class A	0.86	•	•	•	Std	•	•	•
0.75	35	<b>BETTER</b>	170	Class A	0.86	•	Std	•	Std	•	•	1-Yr
0.55	35	-	N/A	Class A	0.85	•	•	•	Std	•	•	•
0.55	35	-	N/A	Fire Guard™	0.85	•	•	•	Std	Std	•	•
0.55	35	-	N/A	Class A	0.85	•	•	•	Std	Std	•	•

[MORE ITEMS](#) ▶

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)  
♦ Add 2-letter color suffix to item number when specifying or ordering (e.g., 1732 C B)

## SUSPENSION SYSTEMS



## PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies. (Class A).

### ASTM E1264 Classification

Type III, Form 2, Pattern C E  
Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions

#### GREENGUARD Gold Certified

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol (excludes item 1732 in colors).

### Acoustical Performance

CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette suspension system for 9/16" edge detail.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



### Insulation Value

R Factor – 1.5 (BTU units)  
R Factor – 0.26 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Square Feet/Carton

1732 – 0.70 lbs/SF; 64 SF/ctn  
1733 – 0.70 lbs/SF; 80 SF/ctn  
1833 – 1.05 lbs/SF; 48 SF/ctn  
1756, 1758 – 1.08 lbs/SF; 40 SF/ctn  
1757, 1759 – 1.08 lbs/SF; 48 SF/ctn

### Minimum Order Quantity

1 carton

### Metric Items Available

1732M, 1733M, 1756M, 1757M, 1758M, 1759M – Metric items subject to extended lead times and minimum quantities.

# FINE FISSURED™ FINE FISSURED™ High NRC

Tegular  
medium texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **56%** RECYCLED CONTENT

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
--------------	---	----------	---------------------

### FINE FISSURED™

15/16" Angled Tegular	12	<b>1834</b>	24 x 48 x 5/8"
9/16" Beveled Tegular	29, 44, 48, 52, 56	<b>1734</b>	24 x 24 x 5/8"
	29, 44, 48, 52, 56	<b>1835</b>	24 x 24 x 5/8"

### FINE FISSURED™ Size Capabilities

Width	Length
5/8" Thick	
12" - 30"	18" - 72"

Made-to-Order Sizes (4-6 Wks)

### School Zone® FINE FISSURED

15/16" Angled Tegular	13	<b>1717</b>	24 x 24 x 3/4"
	13	<b>1820</b>	24 x 24 x 3/4"
	13	<b>1824</b>	24 x 48 x 3/4"

## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	NRC + CAC										
0.55	35	-	N/A	Fire Guard™	0.85	•	•	•	Std	•	•	•
0.55	35	-	N/A	Class A	0.85	•	•	•	Std	Std	•	•
0.55	35	-	N/A	Fire Guard	0.85	•	•	•	Std	Std	•	•
N/A	N/A	-	N/A	Fire Guard	0.85	•	•	•	Std	Std	•	•
0.70	40	<b>BETTER</b>	N/A	Class A	0.85	•	•	•	Std	•	•	•
0.70	35	<b>BETTER</b>	N/A	Fire Guard	0.85	•	•	•	Std	•	•	•
0.70	35	<b>BETTER</b>	N/A	Fire Guard	0.85	•	•	•	Std	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)



# FINE FISSURED™ FINE FISSURED™ High NRC

Tegular  
medium texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **56%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

## VISUAL SELECTION

Edge Profile    Susp. Dwg. Pgs. 474-478 [armstrongceilings.com/catdws](http://armstrongceilings.com/catdws)    Item No. ♦    Dimensions (Inches)

### School Zone® FINE FISSURED™

9/16" Beveled Tegular    29, 44, 48, 52, 56    **1719**    24 x 24 x 3/4"    □



29, 44, 48, 52, 56    **1821**    24 x 24 x 3/4"    □

### School Zone® FINE FISSURED™ Size Capabilities

	Width	Length
15/16" Angled Tegular	<b>Made-to-Order Sizes (4-6 Wks)</b> 3/4" Thick	
9/16" Beveled Tegular	12" - 30"	18" - 72"

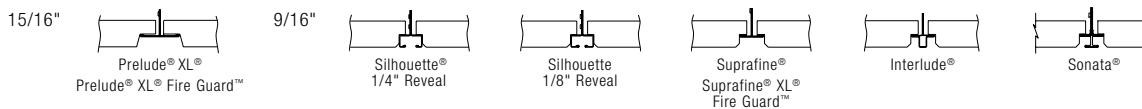
## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	NRC + CAC				Bio-Block	Humi-Guard+					
0.70	40	<b>BETTER</b>	N/A	Class A	0.85	•	•	•	Std	•	•	•
0.70	35	<b>BETTER</b>	N/A	Fire Guard™	0.85	•	•	•	Std	•	•	•
N/A	N/A	–	N/A	Class A	0.85	•	•	•	Std	Std	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)  
 ♦ Add 2-letter color suffix to item number when specifying or ordering (e.g., 1719 C B)

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. (UL labeled).  
Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

**ASTM E1264 Classification**  
Type III, Form 2, Pattern C E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol (excludes item 1835).

**Acoustical Performance**  
CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.



**Insulation Value**  
R Factor – 1.5 (BTU units)  
R Factor – 0.26 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
1820, 1821 – 1.31 lbs/SF; 48 SF/ctn  
1717, 1719 – 1.25 lbs/SF; 48 SF/ctn  
1834 – 1.05 lbs/SF; 64 SF/ctn  
1734 – 0.70 lbs/SF; 64 SF/ctn  
1835 – 1.05 lbs/SF; 48 SF/ctn  
1824 – 1.20 lbs/SF; 64 SF/ctn

**Minimum Order Quantity**  
1 carton, excludes made-to-order panels

**Metric Items Available**  
1820M, 1821M, 1717M, 1719M, 1834M, 1734M, 1824M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

# FINE FISSURED™ Second Look®

Scored Tegular  
medium texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **56%** RECYCLED CONTENT

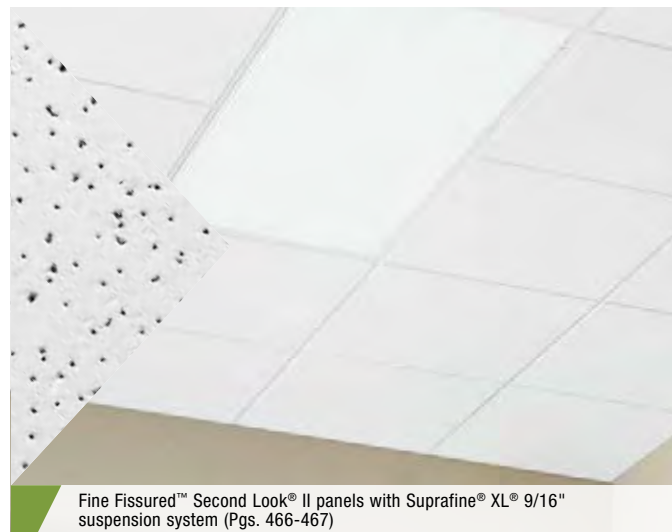
**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

\$\$\$\$



Fine Fissured™ Second Look® II panels with Suprafine® XL® 9/16" suspension system (Pgs. 466-467)

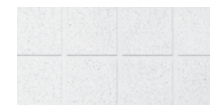
This panel offers economical, standard acoustics and scored visuals.

## KEY SELECTION ATTRIBUTES

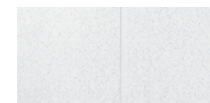
- Geometric scored visuals
- Economical option to create a designer look
- 10-Year replacement panel available for items 1761



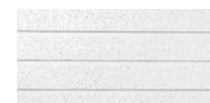
## FACE VIEW



Second Look I



Second Look II



Second Look III

## COLOR



White (WH)

## VISUAL SELECTION

## PERFORMANCE SELECTION

Dots represent high level of performance.

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)	UL Classified Acoustics	NRC + CAC	=	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-yr Warranty
15/16" Angled Tegular	11	1760	24 x 48 x 3/4"	Second Look I	0.55	35	-	Class A	0.84	•	•	•	Std	Std	•	•
				Second Look II	0.55	35	-	Class A	0.84	•	•	•	Std	Std	•	•
				Second Look II	0.55	35	-	Fire Guard™	0.84	•	•	•	Std	Std	•	•
				Second Look III	0.50	35	-	Class A	0.84	•	•	•	Std	Std	•	•
9/16" Angled Tegular	27	1765	24 x 48 x 3/4"	Second Look I	0.55	30	-	Class A	0.84	•	•	•	Std	Std	•	•
				Second Look II	0.55	30	-	Class A	0.84	•	•	•	Std	Std	•	•

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)	UL Classified Acoustics	NRC + CAC	=	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-yr Warranty
15/16" Angled Tegular	11	1760	24 x 48 x 3/4"	Second Look I	0.55	35	-	Class A	0.84	•	•	•	Std	Std	•	•
				Second Look II	0.55	35	-	Class A	0.84	•	•	•	Std	Std	•	•
				Second Look II	0.55	35	-	Fire Guard™	0.84	•	•	•	Std	Std	•	•
				Second Look III	0.50	35	-	Class A	0.84	•	•	•	Std	Std	•	•
9/16" Angled Tegular	27	1765	24 x 48 x 3/4"	Second Look I	0.55	30	-	Class A	0.84	•	•	•	Std	Std	•	•
				Second Look II	0.55	30	-	Class A	0.84	•	•	•	Std	Std	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. (UL labeled). Fire Guard™: A fire-resistant ceiling when used in applicable UL assemblies (Class A).

**ASTM E1264 Classification**  
Type III, Form 2, Pattern C E K  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Insulation Value**  
R Factor – 1.6 (BTU units)  
R Factor – 0.28 (Watts units)



**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® suspension system. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Design Consideration**  
Do not mix Fine Fissured™ Second Look® panels with standard Fine Fissured panels in the same room.

**Weight; Square Feet/Carton**  
0.75 lbs/SF; 80 SF/ctn

**Minimum Order Quantity**  
1 carton

**Metric Items Available**  
1761M - Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



MINERAL FIBER

# FISSURED™

## Square Lay-in & Tegular medium texture

**GREENGUARD Gold Certified**  
(details below)

UP TO **41%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

- LEED energy management
- construction waste to rigint
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT



Fissured™ Angled Tegular panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

This economical panel with a directional, fissured visual offers standard acoustics.

### KEY SELECTION ATTRIBUTES

- Economical
- Directional fissured image

### COLOR



### VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
<b>FISSURED™ Square Lay-in</b>			
	1	<b>756</b>	24 x 24 x 5/8"
	1	<b>896</b>	24 x 24 x 5/8"
	1	<b>755</b>	24 x 48 x 5/8"
	1	<b>895</b>	24 x 48 x 5/8"
<b>FISSURED Tegular</b>			
	12	<b>705</b>	24 x 24 x 5/8"
	12	<b>815</b>	24 x 24 x 5/8"
<b>Size Capabilities</b>		<b>Width</b>	<b>Length</b>
15/16" Square Lay-in & Tegular		Made-to-Order Sizes (4-6 Wks)	5/8" Thick
			12" - 30"      18" - 72"

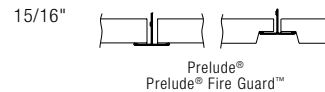
<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics	NRC + CAC	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	Warranty
0.55	30	–	Class A	0.81	–	Std	•	Std	Std	•	1-Yr
0.55	35 •	–	Fire Guard™	0.81	–	Std	•	Std	Std	•	1-Yr
0.55	30	–	Class A	0.81	–	Std	•	Std	Std	•	1-Yr
0.55	35 •	–	Fire Guard	0.81	–	Std	•	Std	Std	•	1-Yr
0.55	30	–	Class A	0.81	–	Std	•	Std	Std	•	1-Yr
0.55	35 •	–	Fire Guard	0.81	–	Std	•	Std	Std	•	1-Yr
N/A	N/A	–	Class A	0.81	–	Std	•	Std	Std	•	1-Yr

### SUSPENSION SYSTEMS



### PHYSICAL DATA

#### Material

Wet-formed mineral fiber

#### Surface Finish

Factory-applied latex paint

#### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

#### ASTM E1264 Classification

Type III, Form 2, Pattern C D Fire Class A

#### Humidity/Sag Resistance

Standard performance ceiling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

#### VOC Emissions

**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

#### Insulation Value

755, 756, 895, 896 – R Factor – 1.5 (BTU units)  
R Factor – 0.26 (Watts units)

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



705, 815 – R Factor – 1.6 (BTU units)  
R Factor – 0.28 (Watts units)

#### Weight; Square Feet/Carton

705 – 0.69 lbs/SF; 64 SF/ctn  
755 – 0.66 lbs/SF; 96 SF/ctn  
756 – 0.67 lbs/SF; 64 SF/ctn  
815 – 1.08 lbs/SF; 48 SF/ctn  
895, 896 – 1.09 lbs/SF; 64 SF/ctn

#### Minimum Order Quantity

1 carton, excludes made-to-order panels

#### Metric Items Available

756M, 896M, 755M, 895M, 705M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

**TechLine / 1 877 276-7876**  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: fissured)  
BPCS-3030-718

LEED® is a registered trademark of the U.S. Green Building Council  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

321

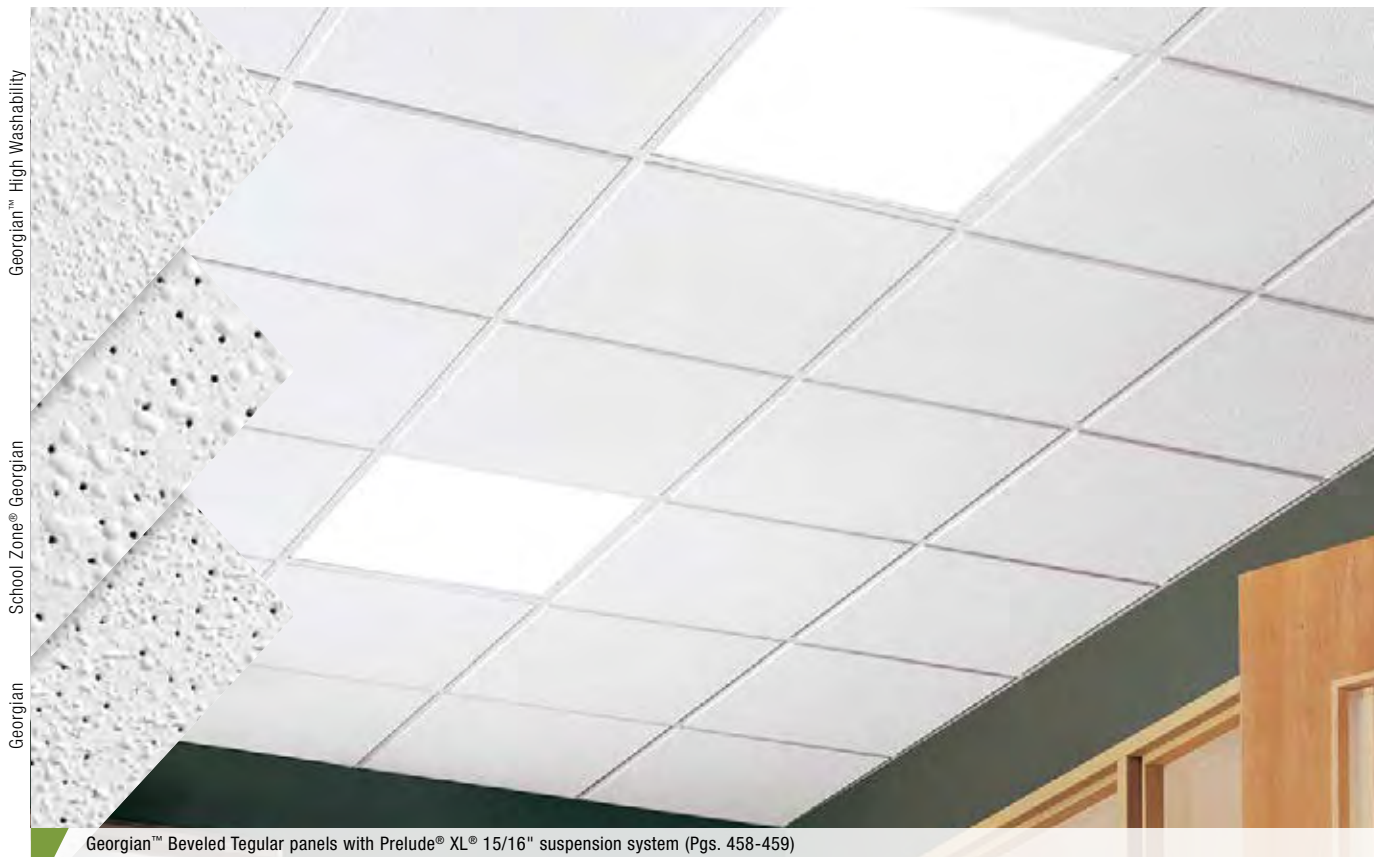
MINERAL FIBER



\$\$\$\$

# GEORGIAN™ & GEORGIAN™ HIGH WASHABILITY

Square Lay-in & Tegular  
medium texture



Georgian™ Beveled Tegular panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

This medium-textured panel offers good acoustics and high washability options to meet USDA/FSIS guidelines.

## KEY SELECTION ATTRIBUTES

- Unique spatter-painted visual
- Total Acoustics® options (Items 795, 796)
- High Washability items available
  - Meets USDA/FSIS guidelines for use in food processing establishments
- Durable – Washable, Scrubbable, Impact-resistant, Scratch-resistant
- 30-Year Limited System Warranty against visible sag (excludes item 791 and other sizes), mold, and mildew

## TYPICAL APPLICATIONS

- Schools/classrooms (Items 795, 796)
- Corridors/conference rooms
- Kitchen/food preparation areas (Items 793, 794)

## COLOR



White  
(WH)

## DETAILS (Other Suspension Systems compatible. Refer to listing on page 323.)



1. Georgian™ Beveled Tegular
2. Georgian™ Beveled Tegular with Prelude® 15/16" suspension system
3. Georgian™ Beveled Tegular with Silhouette® 9/16" suspension system 1/4" Reveal



# GEORGIAN™ & GEORGIAN™ HIGH WASHABILITY

Square Lay-in & Tegular medium texture

UP TO **56%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED**

LOCATION DEPENDENT

**GREENGUARD Gold Certified**  
(details below)

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdws	Item No.	Dimensions (Inches)
<b>GEORGIAN™</b>			
	1	<b>764</b>	24 x 24 x 5/8" <input type="checkbox"/>
		<b>763</b>	24 x 48 x 5/8" <input type="checkbox"/>
		<b>791</b>	30 x 60 x 3/4" <input type="checkbox"/>
	15	<b>1752</b>	24 x 24 x 5/8" <input type="checkbox"/>
	29, 44, 48, 52, 56	<b>1753</b>	24 x 24 x 5/8" <input type="checkbox"/>
<b>GEORGIAN – High Washability Panels, Unperforated</b>			
	1	<b>794</b>	24 x 24 x 5/8" <input type="checkbox"/>
		<b>793</b>	24 x 48 x 5/8" <input type="checkbox"/>
<b>SCHOOL ZONE® GEORGIAN</b>			
	1	<b>796</b>	24 x 24 x 3/4" <input type="checkbox"/>
		<b>795</b>	24 x 48 x 3/4" <input type="checkbox"/>
<b>SCHOOL ZONE® GEORGIAN Size Capabilities</b>			
15/16" Square Lay-in		<b>Made-to-Order Sizes (3-4 Wks)</b>	<b>3/4" Thick</b>
			12" - 30"    18" - 72"

## PERFORMANCE SELECTION

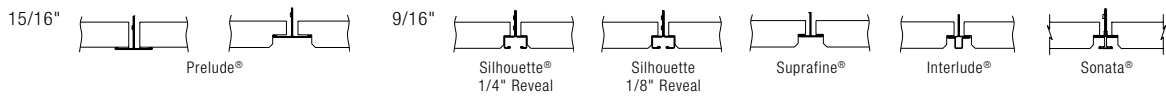
Dots represent high level of performance.

\$\$\$

UL Classified Acoustics	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Scrub	Impact	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
NRC + CAC =	NRC + CAC	Fire	Light	Bio-Block	Humi-Guard+	Certified Low VOC Emissions	Wash	Scrub	Impact	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
0.55    33	–	Class A	0.86	•	•	•	–	–	•	•	•	•	•
0.55    33	–	Class A	0.86	•	•	•	–	–	•	•	•	•	•
0.55    33	–	Class A	0.86	•	Std	•	–	–	•	•	•	•	1-Yr
0.55    35	–	Class A	0.86	•	•	•	–	–	•	•	•	•	•
0.55    35	–	Class A	0.86	•	•	•	–	–	•	•	•	•	•
N/A	33	–	Class A	0.88	•	•	•	•	•	•	•	•	•
N/A	33	–	Class A	0.88	•	•	•	•	•	•	•	•	•
0.65    35	<b>GOOD</b>	Class A	0.86	•	•	•	–	–	•	•	•	•	•
0.65    35	<b>GOOD</b>	Class A	0.86	•	•	•	–	–	•	•	•	•	•
N/A	N/A	–	Class A	0.86	•	Std	•	–	•	•	•	•	1-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

**ASTM E1264 Classification**  
Type III, Form 2, Pattern C E  
Items 794, 793, 898 –  
Type IX, Form 2, Pattern G  
Fire Class A

**Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not

including, standing water and outdoor applications. Excludes Item 791 and made-to-order panels.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**Acoustical Performance**  
CAC testing conducted using Silhouette® suspension system.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.



**Insulation Value**  
R Factor - 1.6 (BTU units)  
R Factor - 0.28 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
763, 793 – 0.67 lbs/SF; 96 SF/ctn  
764, 794, 1752, 1753 – 0.72 lbs/SF; 64 SF/ctn  
791 – 0.76 lbs/SF; 75 SF/ctn  
796 – 1 lbs/SF; 48 SF/ctn  
795 – 1 lbs/SF; 64 SF/ctn

**Minimum Order Quantity**  
1 carton, excludes made-to-order panels

**Metric Items Available**  
1753M, 764M, 763M, 791M, 1752M, 796M, 795M, 794M, 793M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: georgian)  
BPCS-3031-918

LEED® is a registered trademark of the U.S. Green Building Council  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America



323



MINERAL FIBER

# GRAPHIS® Finetex™

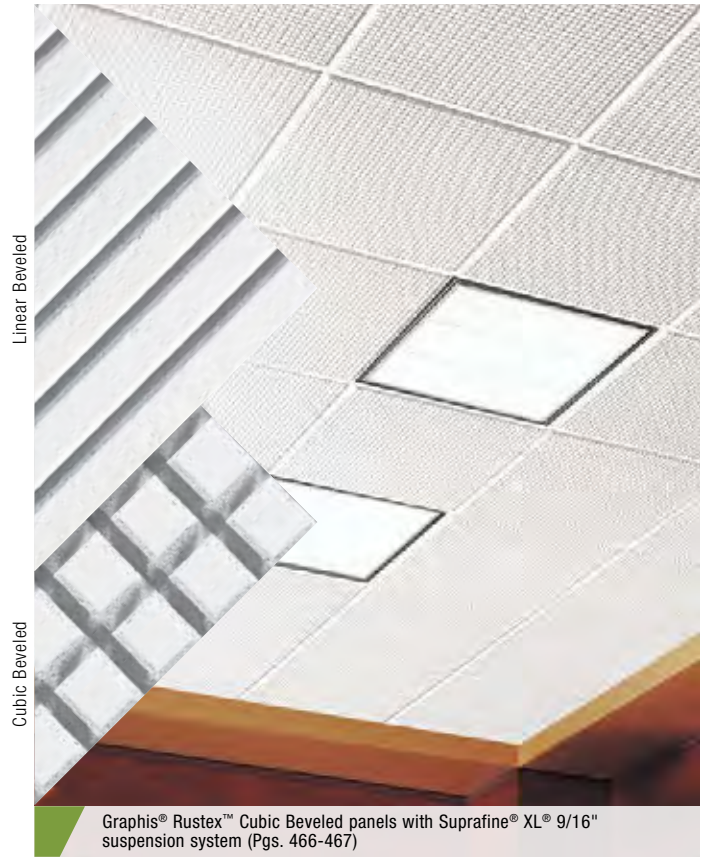
Wrapped Linear,  
Cubic & NeoCubic™  
fine texture

# GRAPHIS® Rustex™

Cubic Beveled &  
Linear Beveled  
coarse texture



Graphis® Finetex™ Wrapped Linear™ panels with Suprafine® XL® 9/16" suspension system (Pgs. 466-467)



Graphis® Rustex™ Cubic Beveled panels with Suprafine® XL® 9/16" suspension system (Pgs. 466-467)

These panels offer bold geometric and linear patterns with unique visual designs.

## KEY SELECTION ATTRIBUTES

### Finetex™

- Finely sculptured geometric patterns
- Single- and multi-design options
- High light reflectance
- 30-Year Limited System Warranty

### Rustex™

- Bold geometric designs
- Good sound absorption
- 30-Year Limited System Warranty

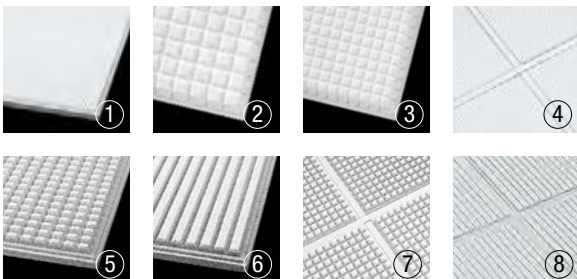
NOTE: Finetex™ panels are not recommended for areas requiring acoustical performance

## COLOR



White  
(Wh)

## DETAILS (Other Suspension Systems compatible. Refer to listing on page 325.)



1. Graphis® Finetex™ Wrapped Linear
2. Graphis® Finetex™ Cubic
3. Graphis® Finetex™ NeoCubic™
4. Graphis® Finetex™ Wrapped Linear with Suprafine® 9/16" suspension system
5. Graphis® Rustex™ Cubic Beveled
6. Graphis® Rustex™ Linear Beveled
7. Graphis® Rustex™ Cubic Beveled with Suprafine® 9/16" suspension system
8. Graphis® Rustex™ Linear Beveled with Suprafine® 9/16" suspension system

# GRAPHIS® Finetex™ & Rustex™

Wrapped Linear™,  
Cubic & NeoCubic™  
fine texture

Cubic Beveled &  
Linear Beveled  
coarse texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **72%** RECYCLED CONTENT

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

## VISUAL SELECTION

## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
--------------	--	----------	---------------------

### GRAPHIS® Finetex™

#### Wrapped Linear

9/16" Wrapped Tegular	34	<b>8005</b>	24 x 24 x 3/4" □
-----------------------	----	-------------	------------------



#### Cubic

	36	<b>8006</b>	24 x 24 x 3/4" □
--	----	-------------	------------------

#### NeoCubic™

	35	<b>8007</b>	24 x 24 x 3/4" □
--	----	-------------	------------------

### GRAPHIS® Rustex™

#### Cubic Beveled

15/16" Beveled Tegular	20	<b>2600</b>	24 x 24 x 3/4" □
------------------------	----	-------------	------------------



#### Linear Beveled

	20	<b>2602</b>	24 x 24 x 3/4" □
--	----	-------------	------------------

#### Cubic Beveled

9/16" Beveled Tegular	33	<b>2600</b>	24 x 24 x 3/4" □
-----------------------	----	-------------	------------------



#### Linear Beveled

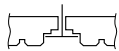
	33	<b>2602</b>	24 x 24 x 3/4" □
--	----	-------------	------------------

UL Classified Acoustics	NRC + CAC	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
N/A	35	—	Class A	0.90	—	—	•	Std	Std	•	•
N/A	35	—	Class A	0.90	—	—	•	Std	Std	•	•
N/A	35	—	Class A	0.90	—	—	•	Std	Std	•	•
0.55	30	—	Class A	0.75	•	•	•	Std	•	•	•
0.55	30	—	Class A	0.75	•	•	•	Std	•	•	•
0.55	30	—	Class A	0.75	•	•	•	Std	•	•	•
0.55	30	—	Class A	0.75	•	•	•	Std	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

## SUSPENSION SYSTEMS

15/16"

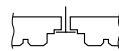


Prelude® Beveled Tegular

9/16"



Suprafine® Wrapped Tegular



Suprafine® Beveled Tegular

## PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification

Type III, Form 2, Pattern J Z  
Fire Class A

### Mold/Mildew Protection (Rustex™ only)

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions

**GREENGUARD Gold Certified**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



### Insulation Value

R Factor - 1.6 (BTU units)  
R Factor - 0.28 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Square Feet/Carton

0.90 lbs/SF; 48 SF/ctn

### Minimum Order Quantity

1 carton

### Metric Items Available

2600M, 2602M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: graphis)  
BPCS-4610-718

LEED® is a registered trademark of the U.S. Green Building Council  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

325

MINERAL FIBER



# KITCHEN ZONE™

Square Lay-in  
smooth texture



Kitchen Zone™ 24" x 24" panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

A better option to vinyl-covered gypsum, this panel offers a lower cost, lighter weight, more pieces per carton, and meets USDA/FSIS guidelines.

## KEY SELECTION ATTRIBUTES

- Easier to cut with less dust
- Recyclable through Armstrong Recycling Program
- Brighter visual with 20% more light reflectance than vinyl-covered gypsum
- Durable – Water-repellent, Washable, Scratch-resistant, Soil-resistant
- Smooth surface meets USDA/FSIS guidelines for use in food processing areas
- 30-Year Limited System Warranty against visible sag, mold, and mildew

## TYPICAL APPLICATIONS

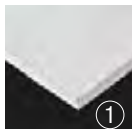
- Kitchen/food preparation areas
- Laboratories
- Cafeterias
- Lavatories/restrooms

## COLOR



White  
(WH)

## DETAILS



①



②

1. Kitchen Zone™ Lay-in
2. Kitchen Zone™ Lay-in with Prelude® XL® 15/16" suspension system

# KITCHEN ZONE™

Square Lay-in  
smooth texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **36%** RECYCLED CONTENT




Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
<b>KITCHEN ZONE™</b>			
15/16" Square Lay-in 	1	<b>673</b>	24 x 24 x 5/8" 
	1	<b>672</b>	24 x 48 x 5/8" 

## PERFORMANCE SELECTION

Dots represent high level of performance.

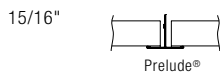
\$\$\$

NRC + CAC =	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
N/A	33	- Class A	0.89	•	•	•	•	•	•	•	Std	•	•
N/A	33	- Class A	0.89	•	•	•	•	•	•	•	Std	•	•

*Note: Durability (Water Repel, Wash, Scratch, Soil) is indicated for the top row.*

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

**ASTM E1264 Classification**  
Type IX, Form 2, Pattern G  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
[UL.COM/GG](http://UL.COM/GG)  
UL 2818



**Insulation Value**  
R Factor – 1.6 (BTU units)  
R Factor – 0.28 (Watts units)

**Application Consideration**  
Not designed for use in close proximity to commercial grease ducts.

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Cleaning Recommendations**  
To clean panel, use a clean, white cloth with water or a mild detergent and wipe surface. To disinfect panel, lightly spray surface and wipe clean with a clean, white cloth. Acceptable colorless disinfectants include:

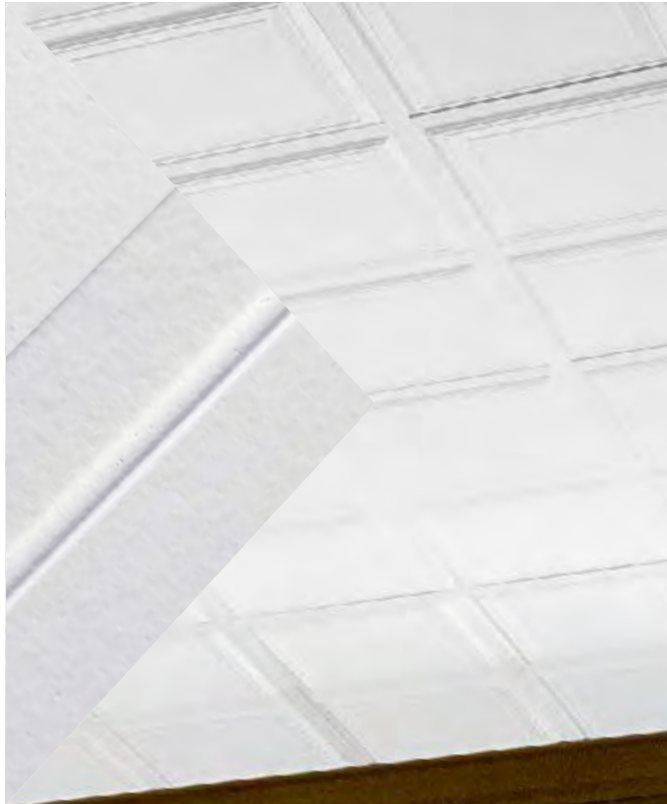
- Sodium hypochlorite
- Hydrogen peroxide
- Quaternary ammonium

**Weight; Square Feet/Carton**  
672 – 0.67 lbs/SF; 96 SF/ctn  
673 – 0.82 lbs/SF; 64 SF/ctn

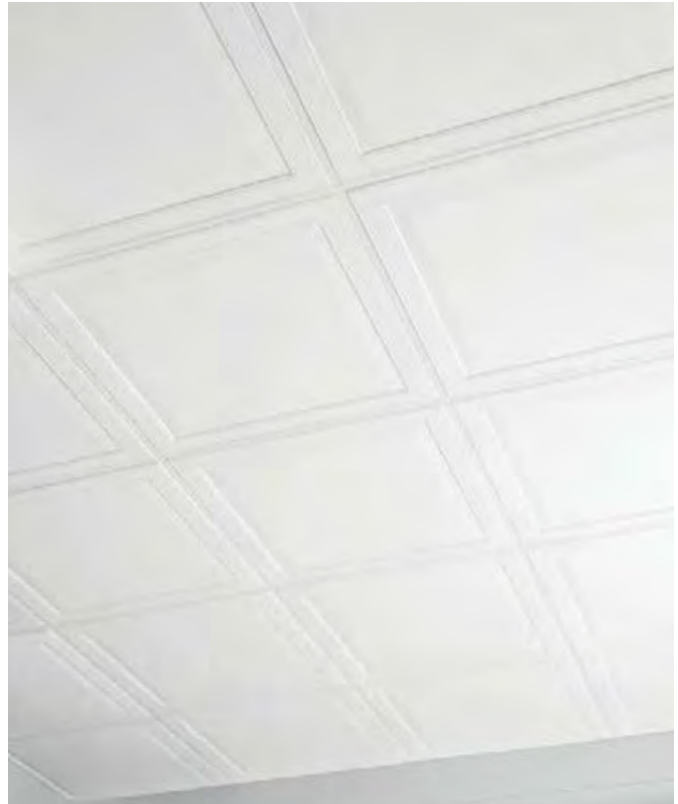
**Minimum Order Quantity**  
1 carton

# LEDGES®

Tegular  
smooth texture



Ledges® I panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)



Ledges® II panels with Suprafine® XL® 9/16" suspension system (Pgs. 466-467)

The dimensional look of old-world plaster ceilings is available in two classic designs.

## KEY SELECTION ATTRIBUTES

- Dimensional, sculptured visual
- Affordable and practical alternative to embossed plaster panels
- Non-directional visual reduces installation time and scrap

NOTE: Not recommended for areas requiring acoustical performance

## COLOR



White  
(WH)

## FACE VIEWS



Ledges® I panel

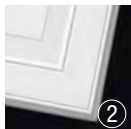


Ledges® II panel

## DETAILS



1



2



3



4

1. Ledges® I Flush Tegular
2. Ledges® II Flush Tegular
3. Ledges® I with Prelude 15/16" suspension system
4. Ledges® II with Suprafine® 9/16" suspension system

# LEDGES®

Tegular  
smooth texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **43%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)





- LEED®
- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

## VISUAL SELECTION

## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)	UL Classified Acoustics	UL Classified Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	Warranty
<b>LEDGES® I</b>														
15/16" Flush Tegular 	3	<b>8011</b>	24 x 24 x 3/4" 	N/A	35	Class A	0.80	-	Std	•	Std	Std	•	1-Yr
<b>LEDGES II</b>														
9/16" Flush Tegular 	25	<b>8013</b>	24 x 24 x 3/4" 	N/A	35	Class A	0.80	-	Std	•	Std	Std	•	1-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

## SUSPENSION SYSTEMS



## PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification

Type III, Form 2, Pattern J Z  
Fire Class A

### Humidity/Sag Resistance

Standard performance ceiling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

### VOC Emissions GREENGUARD Gold Certified

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS [UL.COM/GG](http://UL.COM/GG) UL 2818



### Insulation Value

R Factor - 1.6 (BTU units)  
R Factor - 0.28 (Watts units)

### 1-Year Limited Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Square Feet/Carton

8011 - 0.90 lbs/SF; 48 SF/ctn  
8013 - 0.90 lbs/SF; 32 SF/ctn

### Minimum Order Quantity

1 carton

**new** LYRA® High CAC  
 LYRA®  
 with Plant-based Binder  
 Square Lay-in  
 smooth texture

**TOTAL  
 ACOUSTICS®**  
 Sound Absorption (NRC)  
 + Sound Blocking (CAC)

**SUSTAIN®**  
 High Performance  
 Sustainable  
 Ceiling Systems

**DESIGNFlex™**  
 A New World of Choice  
 for Ceiling Systems

**DESIGNFlex™**  
 CEILING SYSTEMS



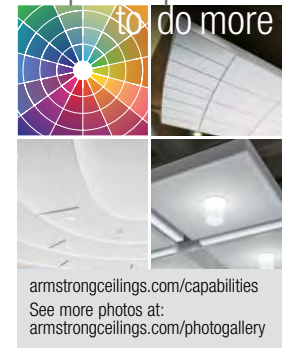
See Lyra® Shapes Page 138-141

**Personalize Your Design!**

Mix and match different sizes, shapes, colors and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



plus capabilities  
 to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
 See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

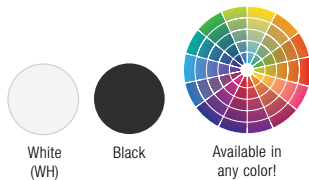
Lyra® Square Lay-in panels with Suprafine® XL® 9/16" suspension system (Pgs. 466-467)

These smoothest fiberglass ceiling available with both Total Acoustics® and Sustain® performance.

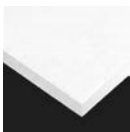
**KEY SELECTION ATTRIBUTES**

- DESIGNFlex™ options include shapes, made-to-order sizes, and colors available to ship in 3 weeks
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance™
- Lyra® PB High CAC panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- High acoustics (NRC 0.95, AC 200, CAC up to 44)
- Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- All items are manufactured with a plant-based binder
- Smooth drywall-like ceiling visual
- Sag-resistant panels
- Compatible with the TechZone® Ceiling Systems
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 30-Year Limited System Warranty against visible sag, mold, and mildew

**COLORS AVAILABLE** Due to printing limitations, shade may vary from actual product.



**DETAILS**



Lyra® PB Square Lay-in



**LYRA® High CAC** *Now in Shapes!*  
**LYRA®**  
 with Plant-based Binder  
 Square Lay-in  
 smooth texture  
**VISUAL SELECTION**

**GREENGUARD**  
 Gold Certified  
 (details below)



**Declare**<sup>SM</sup>  
 Living Building  
 Challenge Compliant

**SUSTAIN**<sup>SM</sup>  
 High Performance  
 Sustainable  
 Ceiling Systems

UP TO **71%** RECYCLED CONTENT

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**PERFORMANCE SELECTION**

Dots represent high level of performance.

\$\$\$

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)
		armstrongceilings.com/catdwgs	

**LYRA® with Plant-based Binder High CAC Square Lay-in**

15/16" Square Lay-in	1	<b>8732PB</b>	24 x 24 x 1-3/4"	<input type="checkbox"/>
	1	<b>8752PB</b>	24 x 48 x 1-3/4"	<input type="checkbox"/>

**Size Capabilities**

	Width	Length
15/16" Square Lay-in	<b>1-3/4" Thick</b>	
1 CTN MIN Made-to-Order Sizes & Colors (3 Wks)	4" – 11-1/2"	12" – 60"
	12" – 24-1/2"	4" – 60"
	25" – 30-1/2"	4" – 30"
	31" – 48"	4" – 24"

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	= NRC + CAC	A	Class	Light Reflect	Bio-Block	Humi-Guard+								
0.95*	42*	<b>BEST</b>	200*	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95*	44*	<b>BEST</b>	200*	Class A	0.88	•	•	•	•	•	•	•	•	•	•
N/A	N/A	–	N/A	Class A	0.88	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

\* These items are not UL classified.

**ACCESSORIES (must be ordered separately)**

**435** Stabilizer Clip (3/4" & 1") – for panels 60" and longer **7870** Spring Border Clip

(For installations with the panel resting on the wall molding)

**SUSPENSION SYSTEMS**

15/16" Prelude®

**PHYSICAL DATA**

**Material**  
 Fiberglass with acoustically transparent membrane

**Surface Finish**  
 Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
 ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled – excludes item 8732 and 8752).

**ASTM E1264 Classification**  
 Type XII, Form 2, Pattern E; Fire Class A

**Humidity/Sag Resistance**  
 HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
 Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
 Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
 UL.COM/GG  
 UL 2818



**High Recycled Content**  
 Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Acoustical Details**  
 A CAC value of 37 can be achieved by backloading fiberglass products with Item 769 or 770. Excludes Lyra PB High CAC.

**Insulation Value**  
 Lyra: R Factor – 4.4 (BTU units); R Factor – 0.76 (Watts units)

**Design Consideration**  
 Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**30-Year Performance Guarantee & Warranty**  
 When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
 8732, 8752 – 1.77 lbs/SF; 24 SF/ctn

**Minimum Order Quantity**  
 1 carton

**LYRA® High CAC** *Now in Shapes!*  
**LYRA®**  
 with Plant-based Binder  
 Square Lay-in  
 smooth texture  
**VISUAL SELECTION**

**GREENGUARD**  
 Gold Certified  
 (details below)



**Declare**  
 Living Building  
 Challenge Compliant

**SUSTAIN**  
 High Performance  
 Sustainable  
 Ceiling Systems

UP TO **71%**  
**LEED**  
 energy management  
 construction waste mgmt  
 regional materials  
 design for flexibility  
 EPD  
 recyclable/extended producer resp.  
 biobased materials  
 recycled content  
 sourcing of raw materials  
 material ingredient reporting  
 low emitting materials  
 lighting quality  
 acoustics

RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

**PERFORMANCE SELECTION** Dots represent high level of performance.

\$\$\$

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)
--------------	-------------------------	----------	---------------------

**LYRA with Plant-based Binder Square Lay-in**

15/16" Square Lay-in	1	<b>8372PB</b>	24 x 24 x 1"	<input type="checkbox"/>
	1	<b>8372PBBK</b>	24 x 24 x 1"	<input type="checkbox"/>
	1	<b>8373PB</b>	24 x 48 x 1"	<input type="checkbox"/>
	1	<b>8450PB</b>	24 x 72 x 1"	<input type="checkbox"/>
	1	<b>8452PB</b>	30 x 30 x 1"	<input type="checkbox"/>
	1	<b>8453PB</b>	30 x 60 x 1"	<input type="checkbox"/>
	1	<b>8370PB</b>	48 x 48 x 1"	<input type="checkbox"/>
	1, 23	<b>8334PB</b>	4 x 48 x 1"	<input type="checkbox"/>
	1, 23	<b>8335PB</b>	4 x 60 x 1"	<input type="checkbox"/>
	1, 23	<b>8336PB</b>	6 x 48 x 1"	<input type="checkbox"/>
	1, 23	<b>8337PB</b>	6 x 60 x 1"	<input type="checkbox"/>

UL Classified Acoustics		Total Acoustics	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	NRC+CAC	AC	Class	Light Reflect	Bio-Block	Humi-Guard+								
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	N/A	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95*	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95*	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95*	N/A	-	190*	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.88	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.88	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.88	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.88	•	•	•	•	•	•	•	•	•	•

**Size Capabilities**

Width	Length
<b>1" Thick</b>	
4" - 11-1/2"	9" - 72"
12" - 23-1/2"	4" - 96"
24" - 48"	4" - 60"

\* Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

**ACCESSORIES (must be ordered separately)**

**435** Stabilizer Clip (3/4" & 1") – for panels 60" and longer **7870** Spring Border Clip

(For installations with the panel resting on the wall molding)

**SUSPENSION SYSTEMS**

15/16" Prelude®

**PHYSICAL DATA**

**Material**  
 Fiberglass with acoustically transparent membrane

**Surface Finish**  
 Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
 ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled – excludes item 8732 and 8752).

**ASTM E1264 Classification**  
 Type XII, Form 2, Pattern E; Fire Class A

**Humidity/Sag Resistance**  
 HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
 Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**High Recycled Content**  
 Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Acoustical Details**  
 A CAC value of 37 can be achieved by backloading fiberglass products with Item 769 or 770. Excludes Lyra PB High CAC.

**Insulation Value**  
 Lyra: R Factor – 4.4 (BTU units); R Factor – 0.76 (Watts units)

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
 UL.COM/GG UL 2818



**Design Consideration**

Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**30-Year Performance Guarantee & Warranty**  
 When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
 8372, 8372BK, 8373 – 0.44 lbs/SF; 96 SF/ctn  
 8370 – 0.44 lbs/SF; 96 SF/ctn  
 8450 – 0.46 lbs/SF; 72 SF/ctn  
 8452 – 0.46 lbs/SF; 75 SF/ctn  
 8453 – 0.46 lbs/SF; 100 SF/ctn  
 8336 – 0.44 lbs/SF; 24 SF/ctn  
 8337 – 0.44 lbs/SF; 30 SF/ctn  
 8334 – 0.44 lbs/SF; 16 SF/ctn  
 8335 – 0.44 lbs/SF; 20 SF/ctn

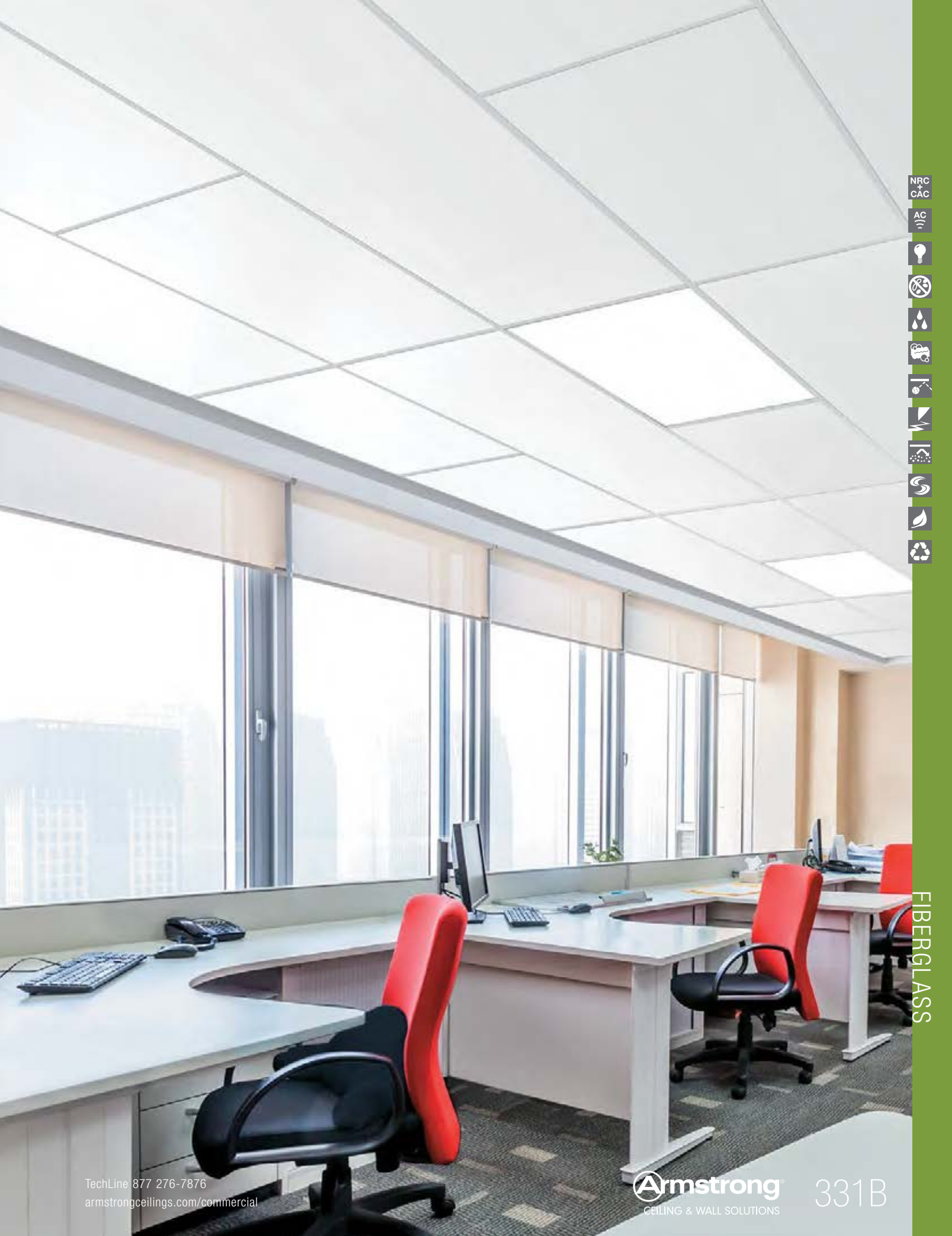
**Minimum Order Quantity**  
 1 carton

331A

TechLine 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)



FIBERGLASS



- NRC
- CAC
- AC
- Lightbulb icon
- No smoking icon
- Water drop icon
- Microphone icon
- Lightning bolt icon
- Speaker icon
- Leaf icon
- Recycling icon

FIBERGLASS

TechLine 877 276-7876  
armstrongceilings.com/commercial

**Armstrong**  
CEILING & WALL SOLUTIONS

331B

**new** LYRA® High CAC  
 LYRA®  
 with Plant-based Binder  
 Tegular  
 smooth texture

**TOTAL  
 ACOUSTICS®**  
 Sound Absorption (NRC)  
 + Sound Blocking (CAC)

**SUSTAIN®**  
 High Performance  
 Sustainable  
 Ceiling Systems

**DESIGNFlex™**  
 A New World of Choice  
 for Ceiling Systems

**DESIGNFlex™**  
 CEILING SYSTEMS

SHAPES

SIZES

COLOR

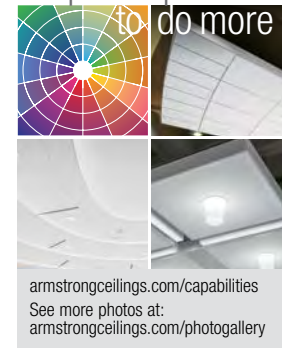
See Lyra® Shapes Page 138-141

**Personalize Your Design!**

Mix and match different sizes, shapes, colors and materials to reinvent your ceiling. More at: [armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



plus capabilities  
 to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
 See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

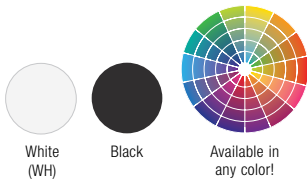
Lyra® Square Tegular panels with Suprafine® XL® 9/16" suspension system (Pgs. 466-467)

These smoothest fiberglass ceiling available with both Total Acoustics® and Sustain® performance.

**KEY SELECTION ATTRIBUTES**

- DESIGNFlex™ options include shapes, made-to-order sizes, and colors available to ship in 3 weeks
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance™
- Lyra® PB High CAC panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- High acoustics (NRC 0.95, AC 200, CAC up to 45)
- Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- All items are manufactured with a plant-based binder
- Smooth drywall-like ceiling visual
- Sag-resistant panels
- Compatible with the TechZone® Ceiling Systems
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 30-Year Limited System Warranty against visible sag, mold, and mildew

**COLORS AVAILABLE** Due to printing limitations, shade may vary from actual product.



**DETAILS**



Lyra® PB Square Tegular

**Tegular**  
smooth texture  
**VISUAL SELECTION**

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)
<b>LYRA® with Plant-based Binder High CAC Square Tegular</b>			
	8	<b>8730PB</b>	24 x 24 x 1-3/4"
	8	<b>8751PB</b>	24 x 48 x 1-3/4"
	26, 43, 47, 51, 55	<b>8731PB</b>	24 x 24 x 1-3/4"
	26, 43, 47, 51, 55	<b>8748PB</b>	24 x 48 x 1-3/4"
	26, 43, 47, 51, 55	<b>8749PB</b>	24 x 60 x 1-3/4"
	26, 43, 47, 51, 55	<b>8750PB</b>	30 x 30 x 1-3/4"
<b>Size Capabilities</b>		<b>Width</b>	<b>Length</b>
15/16" & 9/16" Square Tegular	<b>1 CTN MIN</b> <b>Made-to-Order Sizes &amp; Colors (3 Wks)</b>	<b>1-3/4" Thick</b>	
		4" – 11-1/2"	12" – 60"
		12" – 24-1/2"	4" – 60"
		25" – 30-1/2"	4" – 30"
		31" – 48"	4" – 24"

**PERFORMANCE SELECTION** Dots represent high level of performance.

UL Classified Acoustics	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
0.95* •	42* •	<b>BEST</b> •	200 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•
0.95* •	44* •	<b>BEST</b> •	200 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•
0.95* •	42* •	<b>BEST</b> •	200 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•
0.95* •	44* •	<b>BEST</b> •	200 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•
0.95* •	45* •	<b>BEST</b> •	200 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•
0.95* •	44* •	<b>BEST</b> •	200 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•
N/A	N/A	–	N/A	Class A	0.88 •	•	•	•	•	•	•	•	•	•

\$\$\$



**MORE ITEMS** ►

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

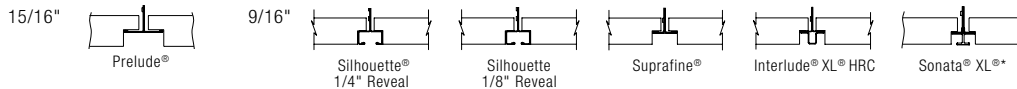
\* These items are not UL classified.

**ACCESSORIES (must be ordered separately)**

**435** Stabilizer Clip (3/4" & 1")  
Recommended for panels 60" and greater in length  
**NOTE:** Panels 60" up to 96" – One clip near mid-point of each long edge.  
Panels 96" and over – Two clips at 1/3 points of each long edge.

**7870** Spring Border Clip  
(For installations with the panel resting on the wall molding)

**SUSPENSION SYSTEMS**



**PHYSICAL DATA**

**Material**  
Lyra® PB: Fiberglass with acoustically transparent membrane

**Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled – excludes items 8730, 8731 8751, 8748, 8749, and 8750).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**High Recycled Content**  
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



**Acoustical Details**  
A CAC value of 37 can be achieved by backloading fiberglass products with Item 769 or 770. Excludes Lyra PB High CAC.

**Insulation Value**  
Lyra: R Factor – 4.4 (BTU units);  
R Factor – 0.76 (Watts units)

**Design Consideration**  
Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
8730, 8731, 8751, 8748, 8749, 8750 – 1.77 lbs/SF; 24 SF/ctn

**Minimum Order Quantity**  
1 carton

**LYRA® High CAC**  
**LYRA®**

*Now in Shapes!*

with Plant-based Binder  
Tegular  
smooth texture

**VISUAL SELECTION**

**GREENGUARD**  
Gold Certified  
(details below)



**Declare**  
Living Building  
Challenge Compliant

**SUSTAIN**  
High Performance  
Sustainable  
Ceiling Systems

**LEED**  
UP TO 71%  
RECYCLED CONTENT

energy management  
construction waste mgmt  
regional materials  
design for flexibility  
EPD

recyclable/extended producer resp.  
biobased materials  
recycled content  
sourcing of raw materials  
material ingredient reporting  
low emitting materials  
lighting quality  
acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

**PERFORMANCE SELECTION** Dots represent high level of performance.

\$\$\$

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)
<b>LYRA with Plant-based Binder Square Tegular</b>			
15/16" Square Tegular	8	<b>8360PB</b>	24 x 24 x 1" □
	8	<b>8360PBK</b>	24 x 24 x 1" □
	8	<b>8352PB</b>	24 x 48 x 1" □
	8	<b>8355PB</b>	48 x 48 x 1" □
9/16" Square Tegular	26, 43, 47, 51, 55	<b>8344PB</b>	4 x 48 x 1" □
	26, 43, 47, 51, 55	<b>8345PB</b>	4 x 60 x 1" □
	26, 43, 47, 51, 55	<b>8346PB</b>	6 x 48 x 1" □
	26, 43, 47, 51, 55	<b>8347PB</b>	6 x 60 x 1" □
	26, 43, 47, 51, 55	<b>8377PB</b>	12 x 48 x 1" □
	26, 43, 47, 51, 55	<b>8379PB</b>	12 x 96 x 1" □
	26, 43, 47, 51, 55	<b>8361PB</b>	24 x 24 x 1" □
	26, 43, 47, 51, 55	<b>8361PBK</b>	24 x 24 x 1" □
	26, 43, 47, 51, 55	<b>8357PB</b>	24 x 48 x 1" □
	26, 43, 47, 51, 55	<b>8365PB</b>	24 x 60 x 1" □
	26, 43, 47, 51, 55	<b>8381PB</b>	24 x 72 x 1" □
	26, 43, 47, 51, 55	<b>8382PB</b>	24 x 96 x 1" □
	26, 43, 47, 51, 55	<b>8461PB</b>	28 x 30 x 1" □
	26, 43, 47, 51, 55	<b>8359PB</b>	30 x 30 x 1" □

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+	NRC + CAC	A/C	Class	Light	Bio-Block	Humi-Guard+								
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	N/A	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	NA	Class A	0.88	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	NA	Class A	0.88	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	NA	Class A	0.88	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	NA	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95*	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	N/A	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

\* These items are not UL classified.

FIBERGLASS

*Now in Shapes!*

**Tegular**  
 smooth texture

**VISUAL SELECTION**

**GREENGUARD**  
 Gold Certified  
 (details below)



**Declare**<sup>SM</sup>  
 Living Building  
 Challenge Compliant

**SUSTAIN**<sup>SM</sup>  
 High Performance  
 Sustainable  
 Ceiling Systems

**LEED** UP TO **71%** RECYCLED CONTENT

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- lowbased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**PERFORMANCE SELECTION** Dots represent high level of performance.

\$\$\$

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No. <a href="http://armstrongceilings.com/catdws">armstrongceilings.com/catdws</a>	Dimensions (Inches)
			<b>8385PB</b> 30 x 60 x 1"
			<b>8376PB</b> 36 x 36 x 1"
			<b>8462PB</b> 42 x 48 x 1"
			<b>8463PB</b> 44 x 48 x 1"
			<b>8356PB</b> 48 x 48 x 1"
			<b>8466PB</b> 56 x 30 x 1"

Size Capabilities	Width	Length
15/16" & 9/16" Square Tegular	1 CTN MIN Made-to-Order Sizes & Colors (3 Wks)	1" Thick
		4" - 11-1/2"
		12" - 29-1/2"
		30" - 48"

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+	NRC + CAC	AC	Class	•	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95*	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95*	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.95*	N/A	-	190*	Class A	0.88	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.88	•	•	•	•	•	•	•	•	•	•

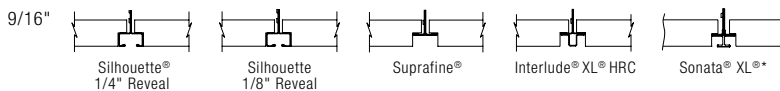
<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)  
 \* This item is not UL classified.

**ACCESSORIES (must be ordered separately)**

**435** Stabilizer Clip (3/4" & 1")  
 Recommended for panels 60" and greater in length  
**NOTE:** Panels 60" up to 96" – One clip near mid-point of each long edge.  
 Panels 96" and over – Two clips at 1/3 points of each long edge.

**7870** Spring Border Clip  
 (For installations with the panel resting on the wall molding)

**SUSPENSION SYSTEMS**



**PHYSICAL DATA**

**Material**  
 Lyra® PB: Fiberglass with acoustically transparent membrane

**Surface Finish**  
 Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
 ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled Excludes items 8379, 8462, and 8463).

**ASTM E1264 Classification**  
 Type XII, Form 2, Pattern E  
 Fire Class A

**Humidity/Sag Resistance**  
 HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
 Ceiling panels with BioBlock® resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
 Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
 UL.COM/GG  
 UL 2818



**High Recycled Content**  
 Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
 Lyra: R Factor – 4.4 (BTU units); R Factor – 0.76 (Watts units)

**Design Consideration**  
 Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**30-Year Performance Guarantee & Warranty**  
 When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
 8356 – 0.46 lbs/SF; 96 SF/ctn  
 8377, 8379 – 0.50 lbs/SF; 48 SF/ctn  
 8361, 8361BK, 8357 – 0.46 lbs/SF; 48 SF/ctn  
 8365 – 0.50 lbs/SF; 100 SF/ctn  
 8381 – 0.50 lbs/SF; 72 SF/ctn  
 8382 – 0.50 lbs/SF; 96 SF/ctn  
 8359, 8376 – 0.46 lbs/SF; 75 SF/ctn  
 8385 – 0.46 lbs/SF; 100 SF/ctn  
 8461, 8466 – 0.44 lbs/SF; 70 SF/ctn  
 8462 – 0.44 lbs/SF; 112 SF/ctn  
 8463 – 0.44 lbs/SF; 117 SF/ctn

**Minimum Order Quantity**  
 1 carton

**new** LYRA®  
Vector®  
smooth texture



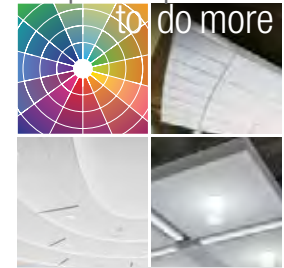
**DESIGNFlex™**  
CEILING SYSTEMS



**Personalize Your Design!**  
Mix and match different sizes, colors, and materials to reinvent your ceiling. More at:  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



plus capabilities  
to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

Lyra® Vector® panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

Smooth-textured acoustical panel is ideal for projects with limited plenum space: requires about 6" of clear space from the deck.

**KEY SELECTION ATTRIBUTES**

- new** • DESIGNFlex™ options include made-to-order sizes and colors available to ship in 3 weeks
- 1/4" reveal between acoustical panels results in a monolithic appearance
- new** • Vector Trim Kit in Blizzard White finish for easy installation and bright visual
- Downward accessible for minimal plenum height
- Outstanding acoustical performance for open plan areas, both Articulation Class (190) and NRC (0.90)
- Smooth, clean durable finish – Washable Scratch-resistant Soil-resistant
- Energy-saving high light-reflective finish
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 30-Year Limited System Warranty against visible sag, mold, and mildew

**COLOR**



White (WH)



Available in any color!

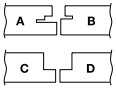







**DETAILS**



1. Lyra® Vector® with Prelude® XL® 15/16" suspension system



**VISUAL SELECTION**

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
		<b>8494</b>	24 x 24 x 7/8" 
		<b>8495</b>	24 x 48 x 7/8" 
		<b>8496</b>	24 x 72 x 7/8" 
		<b>8497</b>	24 x 96 x 7/8" 
		<b>8498</b>	30 X 30 x 7/8" 
		<b>8499</b>	48 x 48 x 7/8" 

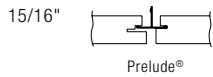
**Size Capabilities**

**1 CTN MIN**  
Made-to-Order  
Sizes &  
Colors  
(3 Wks)

Width	Length
<b>7/8" Thick</b>	
4" - 11-1/2"	12" - 120"
12" - 30"	4" - 120"
30-1/2" - 48"	4" - 48"

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

**SUSPENSION SYSTEMS**



**VECTOR – FIXTURE TRIMS**

Item No.	Length	Color	Substrate	Pcs/Ctn
<b>VETK4ZW</b>	4"	Blizzard White	Steel	24
<b>VETK6ZW</b>	6"	Blizzard White	Steel	24
<b>VETK24ZW</b>	24"	Blizzard White	Steel	24
<b>VETK48ZW</b>	48"	Blizzard White	Steel	24
<b>VETK96ZW</b>	96"	Blizzard White	Steel	24

**Made-to-Order Sizes & Colors (4-6 Wks)**

**Length:** 4" – 96"

**PHYSICAL DATA**

**Material**  
Fiberglass with acoustically transparent membrane

**Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled.)

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**TechLine / 1 877 276-7876**  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: lyra)  
**BPCS-5675-219**

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.



**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Design Considerations**  
Use fixture trim kit around all lights, diffusers, and other ceiling penetrations to avoid exposed suspension system and panel edges.

LEED® is a registered trademark of the U.S. Green Building Council; UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2019 AWI Licensing LLC Printed in the United States of America

Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**Insulation Value**  
R Factor – 3.5 (BTU units)  
R Factor – 0.62 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
8494 – 0.58 lbs/SF; 48 SF/ctn  
8495, 8497 – 0.56 lbs/SF; 96 SF/ctn  
8496 – 0.57 lbs/SF; 72 SF/ctn  
8498 – 0.59 lbs/SF; 75 SF/ctn  
8499 – 0.60 lbs/SF; 64 SF/ctn

**Minimum Order Quantity**  
1 carton

**PERFORMANCE SELECTION** Dots represent high level of performance.

\$\$\$

UL Classified Acoustics		NRC	+	CAC	=	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty	
UL	Class																		
0.90	N/A	•				190	Class A	•	•	•	•	•	•	•	•	•	•	•	•
0.90	N/A	•				190	Class A	•	•	•	•	•	•	•	•	•	•	•	•
0.90	N/A	•				190	Class A	•	•	•	•	•	•	•	•	•	•	•	•
0.90	N/A	•				190	Class A	•	•	•	•	•	•	•	•	•	•	•	•
0.90	N/A	•				190	Class A	•	•	•	•	•	•	•	•	•	•	•	•
0.90	N/A	•				190	Class A	•	•	•	•	•	•	•	•	•	•	•	•
0.90	N/A	•				190	Class A	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A					N/A	Class A	•	•	•	•	•	•	•	•	•	•	•	•



**new** LYRA® Concealed  
Concealed Suspension  
smooth texture



**DESIGNFlex™**  
CEILING SYSTEMS

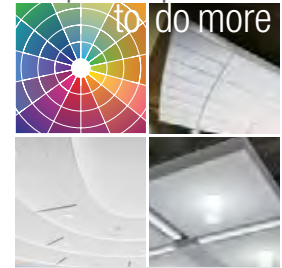


**Personalize Your Design!**  
Mix and match different sizes, colors, and materials to reinvent your ceiling. More at:  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



Lyra® Concealed panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

plus capabilities  
to do more



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

Smooth drywall-like visual with a fully concealed suspension system, creates a monolithic look with accessibility.

**KEY SELECTION ATTRIBUTES**

- new** • DesignFlex™ options include made-to-order sizes and colors available to ship in 3 weeks
- Large format acoustical panels
- Downward accessible for minimal plenum height
- Outstanding acoustical performance for open plan areas, both Noise Reduction and Articulation Class (NRC 0.90, AC up to 190)
- Smooth, clean, durable finish – Washable, Scratch-resistant, Soil-resistant
- Energy-saving, high light-reflective finish
- 30-Year Limited System Warranty against visible sag, mold, and mildew

**COLOR**

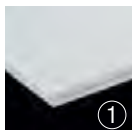


White (Wh)

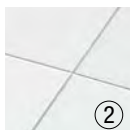


Available in any color!

**DETAILS**



①



②

1. Lyra® Concealed
2. Lyra® Concealed with Prelude® XL® HD 15/16" suspension system

# new LYRA® Concealed

Concealed Suspension  
smooth texture

UP TO 71% RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste to right
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

GREENGUARD Gold Certified  
(details below)

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
		<b>8430</b>	30 x 30 x 7/8"
		<b>8433</b>	24 x 48 x 7/8"
		<b>8431</b>	24 x 72 x 7/8"
		<b>8432</b>	24 x 96 x 7/8"
		<b>8434</b>	48 x 48 x 7/8"

## Size Capabilities

Width	Length
<b>7/8" Thick</b>	
4" - 11-1/2"	12" - 96"
12" - 30"	4" - 96"
30-1/2" - 48"	4" - 48"

1 CTN MIN  
Made-to-Order  
Sizes & Colors  
(3 Wks)

## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

UL Classified Acoustics	NRC	+	CAC	=	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
0.90	•	-	-	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.90	•	-	-	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.90	•	-	-	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.90	•	-	-	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
0.90	•	-	-	-	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•
N/A	-	-	-	-	N/A	Class A	0.88	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## FIXTURE TRIM

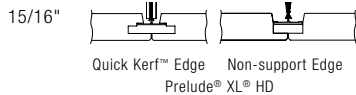
Item No.	Length	Pcs	Color
<b>FTP4ZW</b>	4" Concealed Fixture Kit	24	Blizzard White
<b>FTP6ZW</b>	6" Concealed Fixture Kit	24	Blizzard White
<b>FTP24ZW</b>	24" Concealed Fixture Kit	24	Blizzard White
<b>FTP48ZW</b>	48" Concealed Fixture Kit	24	Blizzard White
<b>FTP96ZW</b>	96" Concealed Fixture Kit	24	Blizzard White
<b>Other Size Fixture Trims</b>	4" to 96" Trim Pieces	-	Blizzard White (custom colors available)

Fixture trim kits include 24 straight trim pieces, 24 corner brackets, screws, and pop rivets. Example: For a space with 24" x 48" fixtures, order (1) 24" kit FTP24ZW and (1) 48" kit FTP48ZW. This will frame (12) 24" x 48" fixtures.

## ACCESSORIES (must be ordered separately)

Item No.	Description
<b>441</b>	Border Clip. Used for corners and special cutouts.
<b>442A</b>	Hold-Down Clip
<b>7425</b> (24") <b>7431</b> (30") <b>7445</b> (48") <b>7461</b> (60")	Stabilizer Bars
<b>522</b>	Mid-point Clip (Needed for panels over 30" wide)
<b>7870</b>	Spring Border Clip (For installations with the panel resting on the wall molding)

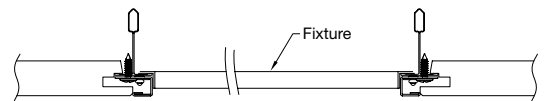
## SUSPENSION SYSTEMS



## AXIOM® TRIM DETAIL



Lyra® Concealed panels with Axiom® Vector® trim for cloud friendly design. **Blizzard White** color and texture coordinated finish available to complement Lyra ceiling panels.



## PHYSICAL DATA

**Material**  
Fiberglass with acoustically transparent membrane.

**Surface Finish**  
Acoustically transparent membrane with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E; Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Anti-Mold/Mildew**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**Acoustical Details**  
CAC backing may be available as a special order.

**VOC Emissions GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



**Design Consideration**  
Use fixture trim kit around all lights, diffusers, and other ceiling penetrations to avoid exposed suspension system and panel edges. Panel sizes less than 24" x 24" are not recommended for full-field installations.

Border panels in a seismic installation will not be accessible. To ensure border panels are accessible in other areas, consult installation instructions section 3.7.2

Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**Installation Consideration**  
Lyra® Concealed panels must be installed on a square, level suspension system as tolerance is near zero.

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
8430 - 0.55 lbs/SF; 75 SF/ctn  
8431 - 0.55 lbs/SF; 72 SF/ctn  
8433, 8432 - 0.55 lbs/SF; 96 SF/ctn  
8434 - 0.55 lbs/SF; 64 SF/ctn

**Minimum Order Quantity**  
1 carton

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: lyra concealed)  
BPCS-5344-219

LEED® is a registered trademark of the U.S. Green Building Council  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

339



FIBERGLASS

# MESA™/MESA™ Second Look®

Square Lay-in & Tegular  
fine texture



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: mesa

Fine-textured visual with good sound absorption and excellent sound-blocking options. Second Look® items offer a scored visual.

## KEY SELECTION ATTRIBUTES

- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance™
- Mesa™ panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Fine-textured visual
- Excellent sound-blocking option
- USDA Certified Biobased Product – 100%
- Non-directional visual reduces installation time and scrap (excludes Second Look items)
- Smaller size panels available (1 carton min order). Info: [armstrongceilings.com/specials](http://armstrongceilings.com/specials)
- Product can be recycled through the Armstrong Ceilings Recycling Program
- 30-Year Limited System Warranty against visible sag, mold, and mildew



## COLOR



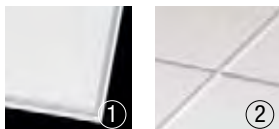
White  
(WH)

## FACE VIEW



Mesa™ Second Look® II panel – Scoring created nominal 24" x 24" squares

## DETAILS (Other Suspension Systems compatible. Refer to listing on page 341.)



1. Mesa™
2. Mesa™ with Suprafine® 9/16" suspension system

# MESA™ /MESA™ Second Look®

Square Lay-in & Tegular  
fine texture

**GREENGUARD**  
Gold Certified  
(details below)

**Declare**<sup>SM</sup>  
Living Building  
Challenge Compliant



**SUSTAIN**<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO **56%** RECYCLED CONTENT

**LEED**®

- energy management
- construction waste to reuse
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- low-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at  
[armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)	
<b>MESA™</b>				
15/16" Square Lay-in	1	<b>680</b>	24 x 24 x 3/4"	
	1	<b>683</b>	24 x 48 x 3/4"	
15/16" Angled Tegular	13	<b>681</b>	24 x 24 x 3/4"	
	13	<b>686</b>	24 x 24 x 3/4"	
	13	<b>684</b>	24 x 48 x 3/4"	
9/16" Beveled Tegular	29, 44, 48, 52, 56	<b>682</b>	24 x 24 x 3/4"	
	29, 44, 48, 52, 56	<b>687</b>	24 x 24 x 3/4"	
	29, 44, 48, 52, 56	<b>685</b>	24 x 48 x 3/4"	
<b>Size Capabilities</b>			<b>Width</b>	<b>Length</b>
15/16" Square Lay-in	<b>Made-to-Order Sizes (4-6 Wks)</b>		<b>3/4" Thick</b>	
15/16" & 9/16" Tegular			12" - 30"	18" - 72"
<b>MESA™ Second Look® II</b>				
15/16" Angled Tegular	11	<b>688</b>	24 x 48 x 3/4"	

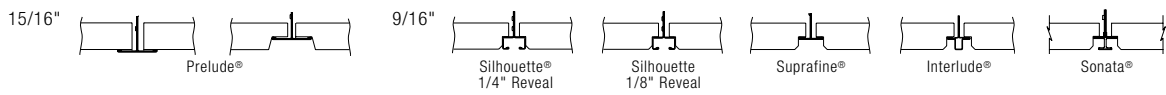
<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
NRC + CAC	= NRC + CAC			Bio-Block	Humi-Guard+		Durability			
0.60 33	-	Class A	0.85	•	•	•	•	•	•	•
0.60 33	-	Class A	0.85	•	•	•	•	•	•	•
0.60 35	<b>GOOD</b>	Class A	0.85	•	•	•	•	•	•	•
0.60 40	<b>GOOD</b>	Class A	0.85	•	•	•	•	•	•	•
0.60 35	<b>GOOD</b>	Class A	0.85	•	•	•	•	Std	•	•
0.60 35	<b>GOOD</b>	Class A	0.85	•	•	•	•	•	•	•
0.60 40	<b>GOOD</b>	Class A	0.85	•	•	•	•	•	•	•
0.60 35	<b>GOOD</b>	Class A	0.85	•	•	•	•	Std	•	•
N/A N/A	-	Class A	0.85	•	•	•	•	Std	•	•
0.60 35	<b>GOOD</b>	Class A	0.85	•	•	•	•	•	•	•

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type III, Form 2, Pattern C E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Acoustical Performance**  
CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.



**Insulation Value**  
R Factor - 1.6 (BTU units)  
R Factor - 0.28 (Watts units)

**Design Consideration**  
Do not mix Mesa™ Second Look® panels with Standard Mesa panels in the same room.

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
680, 681, 682 - 1.02 lbs/SF; 48 SF/ctn  
683, 684, 685 - 1.02 lbs/SF; 64 SF/ctn  
686, 687 - 1.40 lbs/SF; 48 SF/ctn  
688 - 1.02 lbs/SF; 64 SF/ctn

**Minimum Order Quantity**  
1 carton, excludes made-to-order panels

**Metric Items Available**  
680M, 683M, 682M, 681M - Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: mesa)  
BPCS-3642-1118

LEED® is a registered trademark of the U.S. Green Building Council  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America



MINERAL FIBER

# METAPHORS®

Crown, Cove, Convex, Bead & Linear  
coffers and infill panels



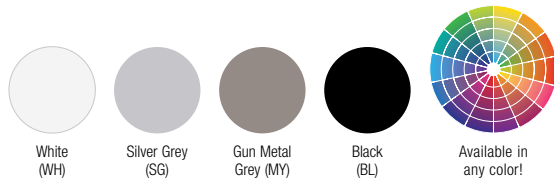
Metaphors® Cove Coffers with Ultima® Lay-in infill panels (Pgs. 376-379)

Metaphors® coffers are available in over 700 standard colors, designs, and acoustical combinations.

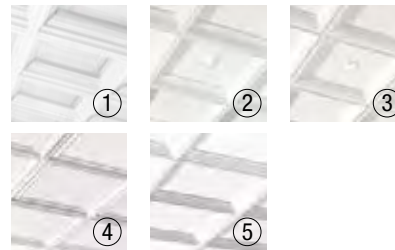
## KEY SELECTION ATTRIBUTES

- Five different coffer designs in four standard colors
- Infill panels available in Infusions™, MetalWorks™, MetalWorks Tin, WoodWorks®, and Ultima® visuals
- Enhance acoustics with MetalWorks perforated or Ultima infill panels (NRC 0.70-0.90)
- Made-to-order Calla® and Lyra® infill panels available in any color
- Custom options:
  - Coffers available in coordinating custom colors
  - Suspension systems available in coordinating custom colors
- For details, contact TechLine at 1 877 276-7876

**COLORS – COFFERS** Due to printing limitations, shade may vary from actual product.



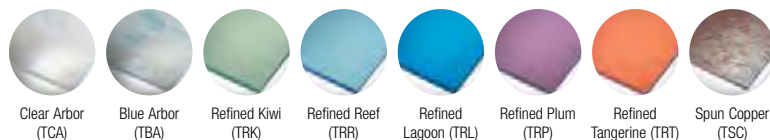
## METAPHORS COFFERS STYLES



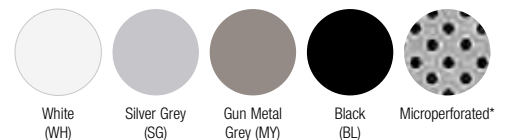
1. Metaphors® Crown
  2. Metaphors® Cove
  3. Metaphors® Convex
  4. Metaphors® Bead
  5. Metaphors® Linear
- Coffers with Ultima 18" x 18" infill panel, Suprafine® XL® 9/16" suspension system (Pgs. 466-467.)

**METAPHORS INFILL PANEL SELECTION** Due to printing limitations, shade may vary from actual product.

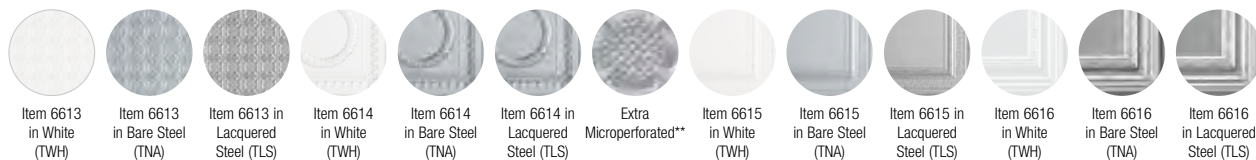
### Infusions®



### MetalWorks™



### MetalWorks™ Tin



### WoodWorks®



### Ultima®



\* Available for all MetalWorks finishes  
 \*\* Available for all Tin items and finishes  
 NOTE: For details about premium and custom infill panel patterns, perforations, and finishes, contact TechLine at 1 877 276-7876.

# METAPHORS®

Crown, Cove, Convex, Bead & Linear  
coffers and infill panels

0% COFFERS UP TO 92% RECYCLED CONTENT

LEED®

energy management, construction waste mgmt, regional materials, design for flexibility, EPD, recyclable/extended producer resp., bio-based materials, recycled content, sourcing of raw materials, material ingredient reporting, low emitting materials, lighting quality, acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No. ♦	Description	Dimensions (Inches)
<b>METAPHORS® Coffers</b>				
9/16" or 15/16"	78, 83	<b>5726</b> _ _	Crown Coffer	24 x 24 x 3"
9/16" or 15/16"	79, 84	<b>5727</b> _ _	Cove Coffer	24 x 24 x 3"
9/16" or 15/16"	80, 85	<b>5725</b> _ _	Convex Coffer	24 x 24 x 1.94"
9/16" or 15/16"	82, 87	<b>5728</b> _ _	Bead Coffer	24 x 24 x 1.125"
9/16" or 15/16"	81, 86	<b>5729</b> _ _	Linear Coffer	24 x 24 x 2"

♦ Add 2-letter color suffix to item number when specifying or ordering (e.g., 5726 **S G**)

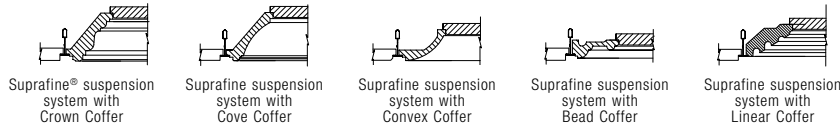
Edge Profile	Item No. ♦♦	Description	Dimensions (Inches)
<b>METAPHORS Infill Panels</b>			
Square Lay-in	<b>6541</b> _ _ _	Infusions® Infill Panel	18 x 18 x 0.125" □
Square Lay-in	<b>6613</b> _ _ _ _ <b>6614</b> _ _ _ _ <b>6615</b> _ _ _ _ <b>6616</b> _ _ _ _	MetalWorks™ Tin Infill Panel Unperforated (B1) MetalWorks Tin Infill Panel Extra Microperforated (B3)	18 x 18 x 0.010" □
Square Tegular	<b>6448M1</b> _ _ <b>6448M2</b> _ _	MetalWorks Infill Panel Unperforated (M1) MetalWorks Infill Panel Microperforated (M2)	18 x 18 x 0.021" □
Square Tegular	<b>6447W1</b> _ _ _	WoodWorks® Infill Panel	18 x 18 x 0.75" □
Beveled Tegular	<b>1918</b>	Ultima® Infill Panel	18 x 18 x 0.75" □

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

♦♦ Add 2-, 3-, or 5-letter color suffix item number when specifying or ordering (e.g., 6541 **I R K**). For perforated items, include the 2-digit perforation suffix and 3-letter color suffix (e.g., 6448M1 **S G**, 6613B3 **I W H**, 6447W1 **N M P**).

## SUSPENSION SYSTEMS

15/16"\* or 9/16"



\* 15/16" not shown

## PHYSICAL DATA

### Material

5725, 5726, 5727, 5728, 5729 – Glass reinforced gypsum coffer; 6541 – Polycarbonate; 6448 – Electrogalvanized steel; 6613, 6614, 6615, 6616 – Steel; 6447 – Fire retardant particle board with face-cut veneers, California Air Resources Board (CARB) Compliant; 1918 – Wet-formed mineral fiber

### Surface Finish

6541 – Smooth; 6448 – Factory-applied powder-coated finish (post-coated); 6614, 6615, 6616 – White, factory-applied powder-coated finish; Bare Steel, unfinished; Lacquered Steel, factory-applied lacquered finish; 6447 – Clear or tinted semi-gloss coating; 1918 – DuraBrite® with factory-applied latex paint

### Fire Performance

All items except 6541 – ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

6541 – Infusions panels have been tested according to the NFPA 286 and are equivalent to Class A Interior Finish as defined by the International Building Code. Designers and installers are advised to consult a fire protection engineer, NFPA 13, and local codes for guidance where automatic fire detection and suppression systems are present.

### ASTM E1264 Classification

6448 – Fire Class A; Unperforated - Type XX, Pattern G; Perforated – Type X, Pattern C; 6613, 6614, 6615, 6616 – Fire Class A; Unperforated – Type XX, Pattern J Z; Perforated – Type XX, Pattern C J Z; 6447 – Composite – Fire Class A; 1918 – Type IV, Form 2, Pattern E, Fire Class A

### Insulation Value

1918 – R Factor 2.2 (BTU units)  
R Factor 0.39 (Watts units)

### Application Considerations

Clear plenum height must be at least 9 inches to accommodate 24" x 24" Metaphors Coffers. Bead profile requires only 5 inches. Coffers are intended for full panel installation only. Do not cut.

### Seismic Restraint

Engineered, tested, and approved for application in all seismic areas.

### Warranty

One (1) year limited warranty. Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Square Feet/Carton

5725, 5726, 5727, 5728, 5729 - 2.35 lbs/SF; 20 SF/ctn; 5 pcs/ctn  
6541 – 0.8 lbs/SF; 13.5 SF/ctn; 6 pcs/ctn  
6448 – 0.89 lbs/SF; 22.5 SF/ctn  
6613, 6614, 6615, 6616 – 0.50 lbs/SF; 22.5 SF/ctn  
6447 – 2.75 lbs/SF; 22.5 SF/ctn; 10 pcs/ctn  
1918 – 1.08 lbs/SF; 22.5 SF/ctn; 10 pcs/ctn

### Minimum Order Quantity

4 cartons

LOCATION DEPENDENT

## PERFORMANCE

Dots represent high level of performance.

\$\$\$\$

Fire Performance	Recycled Content	Recycle Program	Warranty
Class A	Std	–	1-Yr
Class A	Std	–	1-Yr
Class A	Std	–	1-Yr
Class A	Std	–	1-Yr
Class A	Std	–	1-Yr

UL Classified Acoustics	Total Acoustics <sup>1</sup>	Fire Performance	Recycle Content	Recycle Program	30-Yr Warranty
NRC + CAC = NRC CAC					

UL Classified	NRC	CAC	Fire Performance	Recycle Content	Recycle Program	30-Yr Warranty
N/A	N/A	–	Class A	Std	–	1-Yr
N/A	N/A	–	Class A	Std	–	1-Yr
N/A	N/A	–	Class A	Std	–	1-Yr
–	N/A	–	Class A	•	–	1-Yr
N/A	N/A	–	Class A	•	•	•

**OPTIMA®**  
**OPTIMA®**  
 with Plant-based Binder  
 Square Lay-in  
 fine texture

**SUSTAIN®**  
 High Performance  
 Sustainable  
 Ceiling Systems  
 (PB Suffix Only)

**DESIGNFlex™**  
 A New World of Choice  
 for Ceiling Systems

**DESIGNFlex™**  
 CEILING SYSTEMS

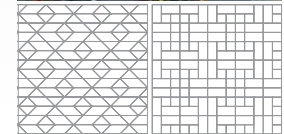


See Optima® Shapes Page 142-143

**Personalize Your Design!**

Mix and match different sizes, shapes, and materials to reinvent your ceiling. More at:

[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



plus capabilities  
 to do more



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
 SEARCH: optima

Smooth-textured Optima® panels provide excellent acoustical absorption and more standard-size options than any other texture in the line.

**KEY SELECTION ATTRIBUTES**

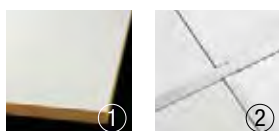
- DESIGNFlex™ options include shapes and made-to-order sizes available to ship in 3 weeks
- Optima® PB panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Smooth, clean, durable finish – Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Items with PB suffix are manufactured with a plant-based binder
- Outstanding acoustical performance for open plan areas, both Articulation Class (180-200) and NRC (0.90-1.00)
- Energy-saving high light-reflective finish
- Non-directional visual reduces scrap and installation time
- Sag-resistant large-size panels
- Compatible with TechZone® Ceiling Systems
- Item 3352 available with Create!™ printed images and patterns
- 30-Year Limited System Warranty against visible sag, mold, and mildew
- 10-Year replacement panel available for items 3152, 3153



**COLOR**



**DETAILS**



- Optima® Square Lay-in
- Optima® Square Lay-in with Prelude® 15/16" suspension system



OPTIMA®  
OPTIMA®

PB options now  
in Shapes!

with Plant-based Binder  
Square Lay-in  
fine texture

VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)	
<b>OPTIMA® Square Lay-in</b>				
15/16" Square Lay-in	1	1462	4 x 48 x 1"	
	1	1463	4 x 60 x 1"	
	1	1400	6 x 48 x 1"	
	1	1404	6 x 60 x 1"	
	1	3156	20 x 60 x 1"	
	1	3150 3150PB	24 x 24 x 3/4"	
	1	3152 3152PB	24 x 24 x 1"	
	1	3352	24 x 24 x 1"	
	1	3159	24 x 24 x 1-1/2"	

GREENGUARD Gold Certified  
Formaldehyde-Free  
(details below)



Declare™ Living Building Challenge Compliant (PB Suffix Only)

SUSTAIN™ High Performance Sustainable Ceiling Systems (PB Suffix Only)

UP TO 71% RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

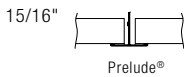
LEED	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
	LOCATION DEPENDENT					PB ONLY			PB ONLY				

PERFORMANCE SELECTION Dots represent high level of performance.

UL Classified Acoustics	NRC	CAC	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
N/A	N/A	-	N/A	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.90	N/A	-	180	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.90	26	-	200	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
1.00	N/A	-	200	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•

MORE ITEMS ►

SUSPENSION SYSTEMS



Prelude®

Blizzard White – Suspension System Finish

A color and texture coordinated suspension system to complement Optima® ceiling panels for a monolithic look and feel.

PHYSICAL DATA

**Material**  
3150, 3156, 3159, 1462, 1463, 1400, 1404, 3152 – Fiberglass with DuraBrite® acoustically transparent membrane 3352 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing

**Surface Finish**  
DuraBrite with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® resist the growth of mold and mildew.

**VOC Emissions (PB suffix items only)**  
GREENGUARD Gold Certified  
This product has been UL validated to be Formaldehyde-Free. UL.COM/ECV.  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Acoustical Details**  
Some items have CAC backing. CAC backing may be available as a special order. A CAC value of 37 can be achieved by backloading fiberglass products with item 769 or 770.

**Insulation Value**  
1400, 1404, 1462, 1463, 3152, 3156, 3352, – R Factor – 4.0 (BTU units)  
R Factor – 0.70 (Watts units)  
3150 – R Factor – 3.0 (BTU units)  
R Factor – 0.53 (Watts units)  
3159 – R Factor – 6.0 (BTU units)  
R Factor – 1.05 (Watts units)

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818



**Application Consideration**  
Do not mix Optima panels and Optima® Health Zone™ panels in the same room.

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
1400 – 0.13 lbs/SF; 24 SF/ctn  
1404 – 0.16 lbs/SF; 30 SF/ctn  
1462 – 0.44 lbs/SF; 16 SF/ctn  
1463 – 0.44 lbs/SF; 20 SF/ctn  
3150, 3150PB – 0.44 lbs/SF; 128 SF/ctn  
3152, 3152PB – 0.45 lbs/SF; 96 SF/ctn  
3159 – 0.61 lbs/SF; 64 SF/ctn  
3156 – 0.47 lbs/SF; 100 SF/ctn  
3352 – 0.46 lbs/SF; 96 SF/ctn

**Minimum Order Quantity**  
1 carton

**Metric Items Available**  
3150M, 3152M, 3156M, 3159M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



FIBERGLASS

# OPTIMA® OPTIMA®

*PB options now  
in Shapes!*

with Plant-based Binder  
Square Lay-in  
fine texture

**GREENGUARD**  
Gold Certified  
Formaldehyde-Free  
(details below)



**Declare**<sup>SM</sup>  
Living Building  
Challenge Compliant  
(PB Suffix Only)

**SUSTAIN**<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems  
(PB Suffix Only)

UP TO **71%** RECYCLED CONTENT

**LEED**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT      PB ONLY      PB ONLY      PB ONLY

Calculate LEED contribution at  
[armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)	
<b>OPTIMA® Square Lay-in</b>				
15/16" Square Lay-in	1	<b>3151</b> <b>3151PB</b>	24 x 48 x 3/4"	
	1	<b>3153</b> <b>3153PB</b>	24 x 48 x 1"	
	1	<b>3353</b>	24 x 48 x 1"	
	1	<b>3155</b>	24 x 48 x 1-1/2"	
	1	<b>3356</b>	24 x 48 x 1-1/2"	
	1	<b>3164</b>	24 x 60 x 3/4"	
	1	<b>3161</b>	24 x 72 x 3/4"	
	1	<b>3162</b>	24 x 96 x 3/4"	
	1	<b>3158</b>	30 x 30 x 1"	
	1	<b>3157</b>	30 x 60 x 1"	
	1	<b>3160</b> <b>3160PB</b>	48 x 48 x 1"	
	1	<b>3154</b>	48 x 96 x 1"	

## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>		Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	=	AC	Class	Class	0.90	Bio-Block	Humi-Guard+		Durability						
0.90	N/A	-	180	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.90	26	-	200	Class A	0.90	•	•	-	•	•	•	•	•	•	-	•
1.00	N/A	-	200	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.95	26	-	200	Class A	0.90	•	•	-	•	•	•	•	•	•	-	•
0.90	N/A	-	180	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.90	N/A	-	180	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.90	N/A	-	180	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain® portfolio and carry Declare™ certification.



FIBERGLASS

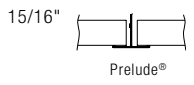
**VISUAL SELECTION**

**PERFORMANCE SELECTION** Dots represent high level of performance.

Edge Profile	Dimensions (Inches)	Performance Metrics															
		NRC	CAC	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
OPTIMA® Size Capabilities 15/16" Square Lay-in 1 CTN MIN Made-to-Order Sizes (3 Wks)	<b>Non-PB 3/4" Thick</b>	N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	4" - 5-1/2"																
	6" - 11-1/2"																
	12" - 30-1/2"																
	31" - 48"																
	<b>Non-PB 1" Thick</b>	N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	4" - 5-1/2"																
	6" - 11-1/2"																
	12" - 48"																
	<b>Non-PB 1-1/2" Thick</b>	N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	4" - 5-1/2"																
	6" - 11-1/2"																
	12" - 42-1/2"																
	43" - 48"																
	<b>PB 1" Thick</b>	N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•	•	•
	4" - 5-1/2"																
6" - 11-1/2"																	
12" - 24-1/2"																	
25" - 30-1/2"																	
31" - 48"																	

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain® portfolio and carry Declare™ certification.

**SUSPENSION SYSTEMS**



**Blizzard White – Suspension System Finish**

A color and texture coordinated suspension system to complement Optima® ceiling panels for a monolithic look and feel.

**PHYSICAL DATA**

**Material**  
 3153, 3155, 3158 – Fiberglass with DuraBrite® acoustically transparent membrane  
 3353, 3356 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing

**Surface Finish**  
 DuraBrite scrim with factory-applied latex paint

**Fire Performance**  
 ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
 Type XII, Form 2, Pattern E  
 Fire Class A

**Humidity/Sag Resistance**  
 HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
 Ceiling panels with BioBlock® resist the growth of mold and mildew.

**VOC Emissions (PB suffix items only)**  
**GREENGUARD Gold Certified**  
 This product has been UL validated to be Formaldehyde-Free. [UL.COM/ECV](http://UL.COM/ECV).

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Primary (Embodied) Energy**  
 See all LCA information on our EPDs.

**High Recycled Content**  
 Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Acoustical Details**  
 Some items have CAC backing. CAC backing may be available as a special order. A CAC value of 37 can be achieved by backloading fiberglass products with item 769 or 770.

**Insulation Value**  
 3153, 3158, 3353, 3154, 3160, 3157 – R Factor – 4.0 (BTU units)  
 R Factor – 0.70 (Watts units)  
 3151, 3161, 3162, 3164 – R Factor – 3.0 (BTU units)  
 R Factor – 0.53 (Watts units)



3155, 3356 – R Factor – 6.0 (BTU units)  
 R Factor – 1.05 (Watts units)

**Application Consideration**  
 Do not mix Optima panels and Optima® Health Zone™ panels in the same room.

**30-Year Performance Guarantee & Warranty**  
 When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
 3151, 3151PB – 0.44 lbs/SF; 128 SF/ctn  
 3153, 3153PB, 3160, 3160PB – 0.45 lbs/SF; 96 SF/ctn  
 3155, 3356 – 0.61 lbs/SF; 64 SF/ctn  
 3158 – 0.47 lbs/SF; 75 SF/ctn  
 3353 – 0.46 lbs/SF; 96 SF/ctn  
 3154 – 0.45 lbs/SF; 128 SF/ctn  
 3157 – 0.56 lbs/SF; 100 SF/ctn  
 3161 – 0.43 lbs/SF; 96 SF/ctn  
 3164 – 0.43 lbs/SF; 100 SF/ctn  
 3162 – 0.42 lbs/SF; 128 SF/ctn

**Minimum Order Quantity**  
 1 carton

**Metric Items Available**  
 3151M, 3153M, 3154M, 3155M, 3158M, 3160M, 3353M, 3356M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



FIBERGLASS

**OPTIMA®**  
**OPTIMA®**  
 with Plant-based Binder  
**Tegular**  
 fine texture



**DESIGNFlex™**  
 CEILING SYSTEMS

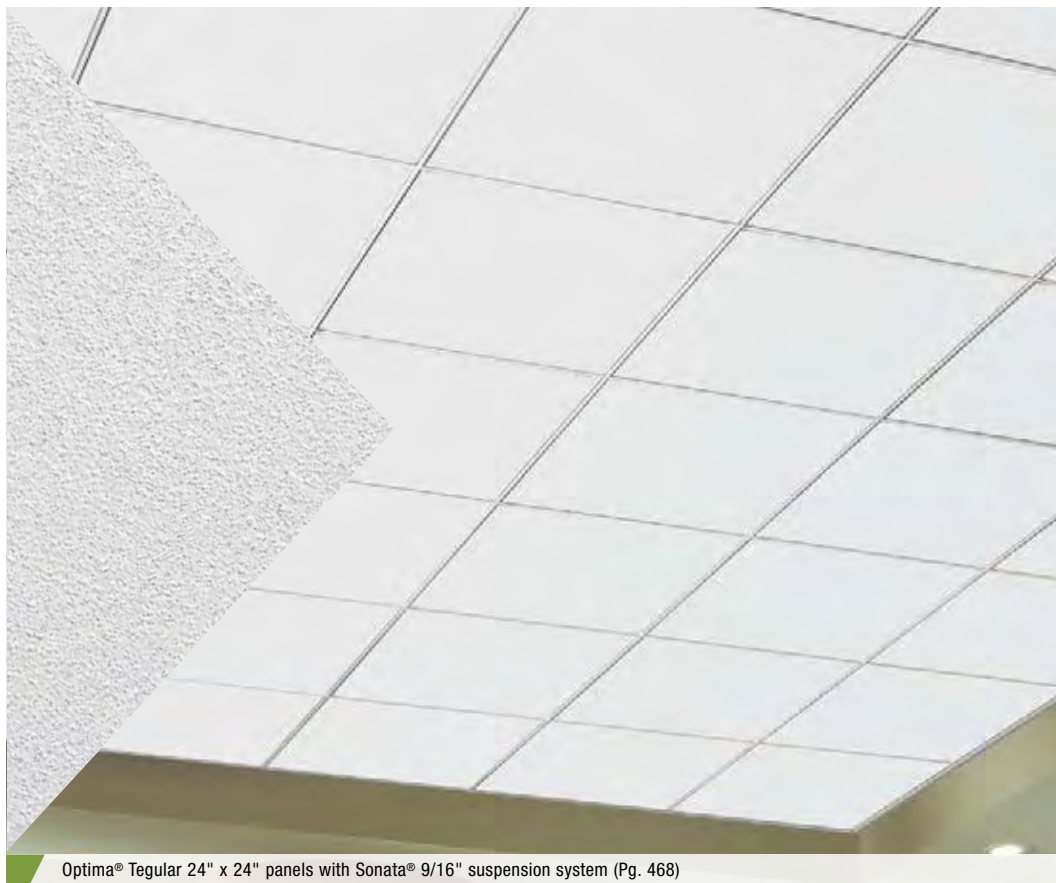


See Optima® Shapes Page 144-147

**Personalize Your Design!**

Mix and match different sizes, shapes, and materials to reinvent your ceiling. More at:

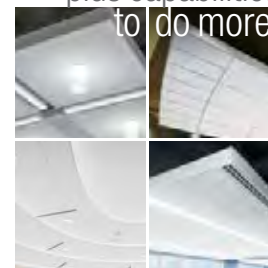
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



Optima® Tegular 24" x 24" panels with Sonata® 9/16" suspension system (Pg. 468)



plus capabilities  
to do more



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
 SEARCH: optima

Smooth-textured panels provide excellent acoustical absorption and the most standard sizes of any Armstrong Ceilings product.

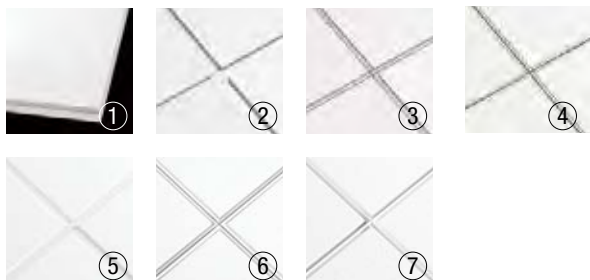
**KEY SELECTION ATTRIBUTES**

- DESIGNFlex™** options include shapes and tailor-made sizes available to ship in 3 weeks
- Optima® PB panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Smooth, clean, durable finish – Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Items with PB suffix are manufactured with a plant-based binder
- Outstanding acoustical performance for open plan areas, both Articulation Class (180-200) and NRC (0.90-1.00)
- Energy-saving high light-reflective finish
- Non-directional visual reduces scrap and installation time
- Sag-resistant large-size panels
- Compatible with TechZone® Ceiling Systems
- 30-Year Limited System Warranty against visible sag, mold, and mildew

**COLOR**



**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 351.)



- Optima® Square Tegular
- Optima® Tegular with Prelude® 15/16" suspension system
- Optima® Tegular with Interlude® XL® HRC 9/16" suspension system
- Optima® Tegular with Silhouette® 9/16" suspension system with 1/8" reveal
- Suprafine® ML, XL®, and XL® HRC with Blizzard White finish
- Silhouette® XL® 1/4" and 1/8" reveal with Blizzard White finish
- Interlude® XL® HRC with Blizzard White finish

**OPTIMA®** *PB options now in Shapes!*  
**OPTIMA®**  
 with Plant-based Binder  
 Tegular  
 fine texture

**GREENGUARD Gold Certified**  
 Formaldehyde-Free  
 (details below)

**Declare™**  
 Living Building Challenge Compliant  
 (PB Suffix Only)

**SUSTAIN®**  
 High Performance Sustainable Ceiling Systems  
 (PB Suffix Only)

UP TO **71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED** icons: energy management, construction waste mgmt, regional materials, design for flexibility, EPD, recyclable/extended producer resp., bio-based materials, recycled content, sourcing of raw materials, material ingredient reporting, low emitting/low VOC, lighting quality, acoustics

LOCATION DEPENDENT, PB ONLY, PB ONLY, PB ONLY

**VISUAL SELECTION**

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)
<b>OPTIMA® Tegular</b>			
15/16" Square Tegular	8	<b>1402</b>	6 x 48 x 1"
	8	<b>1406</b>	6 x 60 x 1"
	8	<b>3264</b>	12 x 24 x 1"
	8	<b>3278</b>	20 x 60 x 1"
	8	<b>3250</b> <b>3250PB</b>	24 x 24 x 1"
	8	<b>3354</b>	24 x 24 x 1"
	8	<b>3253</b>	24 x 24 x 1-1/2"
	8	<b>3252</b> <b>3252PB</b>	24 x 48 x 1"
	8	<b>3281</b>	24 x 72 x 1"
	8	<b>3282</b>	24 x 96 x 1"
	8	<b>3258</b>	30 x 30 x 1"
	8	<b>3286</b>	30 x 60 x 1"
	8	<b>3255</b> <b>3255PB</b>	48 x 48 x 1"

**PERFORMANCE SELECTION** Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew	Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	=	AG	Class	•	•	Bio-Block	Humi-Guard+	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95*	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95*	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.90	26	-	200	Class A	0.90	•	•	•	-	•	•	•	•	•	-	•
1.00	N/A	-	200	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
 Optima items with the PB suffix are included in the Sustain® portfolio and carry Declare™ certification.  
 \* These items are not UL classified.

**PHYSICAL DATA**

**Material**  
 3354 – Fiberglass with DuraBrite® acoustically transparent membrane; CAC backing  
 All other items – Fiberglass with DuraBrite acoustically transparent membrane

**Surface Finish**  
 DuraBrite scrim with factory-applied latex paint

**Fire Performance**  
 ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
 Type XII, Form 2, Pattern E  
 Fire Class A

**Humidity/Sag Resistance**  
 HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
 Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions (PB suffix items only)**  
**GREENGUARD Gold Certified**  
 This product has been UL validated to be Formaldehyde-Free. **UL.COM/ECV.**  
 Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Primary (Embodied) Energy**  
 See all LCA information on our EPDs.

**High Recycled Content**  
 Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Acoustical Details**  
 Some items have CAC backing. CAC backing may be available as a special order. A CAC value of 37 can be achieved by backloading fiberglass products with Item 769 or 770.

**Insulation Value**  
 3253 – R Factor – 6.0 (BTU units)  
 R Factor – 1.05 (Watts units)  
 3281, 3282 – R Factor – 3.0 (BTU units)  
 R Factor – 0.53 (Watts units)  
 All other items – R Factor – 4.0 (BTU units)  
 R Factor – 0.70 (Watts units)



**30-Year Performance Guarantee & Warranty**  
 When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
 1402 – 0.55 lbs/SF; 24 SF/ctn  
 1406 – 0.55 lbs/SF; 30 SF/ctn  
 3250 – 0.46 lbs/SF; 48 SF/ctn  
 3252 – 0.55 lbs/SF; 96 SF/ctn  
 3282 – 0.42 lbs/SF; 96 SF/ctn  
 3264 – 0.55 lbs/SF; 48 SF/ctn  
 3253 – 0.64 lbs/SF; 32 SF/ctn  
 3255 – 0.55 lbs/SF; 96 SF/ctn  
 3258 – 0.55 lbs/SF; 75 SF/ctn  
 3278, 3286 – 0.55 lbs/SF; 100 SF/ctn  
 3281 – 0.55 lbs/SF; 72 SF/ctn  
 3282 – 0.42 lbs/SF; 96 SF/ctn  
 3354 – 0.47 lbs/SF; 48 SF/ctn

**Minimum Order Quantity**  
 1 carton

**Metric Items Available**  
 3250M, 3252M, 3253M, 3354M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



FIBERGLASS

# OPTIMA® OPTIMA®

*PB options now  
in Shapes!*

with Plant-based Binder  
Tegular  
fine texture

**GREENGUARD**  
Gold Certified  
Formaldehyde-Free  
(details below)



**Declare**<sup>SM</sup>  
Living Building  
Challenge Compliant  
(PB Suffix Only)

**SUSTAIN**<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems  
(PB Suffix Only)

UP TO **71%** RECYCLED CONTENT

**LEED** energy management, construction waste mgmt, regional materials, design for flexibility, EPD, recyclable/extended producer resp., biobased materials, recycled content, sourcing of raw materials, material ingredient reporting, low emitting materials, lighting quality, acoustics

LOCATION DEPENDENT PB ONLY PB ONLY PB ONLY

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)	
	26, 43, 47, 51, 55	<b>1410</b>	4 x 48 x 1"	
	26, 43, 47, 51, 55	<b>1411</b>	4 x 60 x 1"	
	26, 43, 47, 51, 55	<b>1412</b>	6 x 6 x 1"	
	26, 43, 47, 51, 55	<b>1413</b>	6 x 12 x 1"	
	26, 43, 47, 51, 55	<b>1415</b>	6 x 42 x 1"	
	26, 43, 47, 51, 55	<b>1403</b>	6 x 48 x 1"	
	26, 43, 47, 51, 55	<b>1417</b>	6 x 54 x 1"	
	26, 43, 47, 51, 55	<b>1407</b>	6 x 60 x 1"	
	26, 43, 47, 51, 55	<b>1409</b>	6 x 96 x 1"	
	26, 43, 47, 51, 55	<b>3263</b>	12 x 24 x 1"	
	26, 43, 47, 51, 55	<b>3290</b>	12 x 48 x 1"	
	26, 43, 47, 51, 55	<b>1414</b>	12 x 96 x 1"	

## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

UL Classified Acoustics		NRC	CAC	=	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
UL	Class																	
N/A	N/A	-	N/A	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain® portfolio and carry Declare™ certification.

**OPTIMA®** *PB options now in Shapes!*  
**OPTIMA®**  
 with Plant-based Binder  
 Tegular  
 fine texture

**GREENGUARD Gold Certified**  
 Formaldehyde-Free  
 (details below)

**DECLARE™**  
 Living Building Challenge Compliant  
 (PB Suffix Only)

**SUSTAIN™**  
 High Performance Sustainable Ceiling Systems  
 (PB Suffix Only)

UP TO **71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED** icons: energy management, construction waste to mgmt, regional materials, design for flexibility, EPD, recyclable/extended producer resp., bio-based materials, recycled content, sourcing of raw materials, material ingredient reporting, low emitting materials, lighting quality, acoustics

LOCATION DEPENDENT, PB ONLY, PB ONLY, PB ONLY

**VISUAL SELECTION**

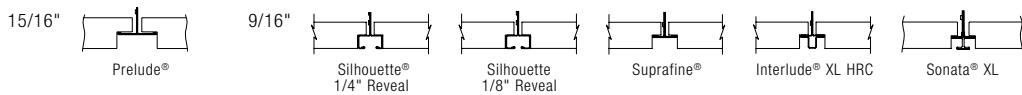
Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdws">armstrongceilings.com/catdws</a>	Item No.	Dimensions (Inches)
<b>OPTIMA® Tegular</b>			
9/16" Square Tegular	26, 43, 47, 51, 55	<b>3276</b>	20 x 54 x 1"
	26, 43, 47, 51, 55	<b>3266</b>	20 x 56 x 1"
	26, 43, 47, 51, 55	<b>3277</b>	20 x 60 x 1"
	26, 43, 47, 51, 55	<b>3279</b>	21 x 24 x 1"
	26, 43, 47, 51, 55	<b>3251</b> <b>3251PB</b>	24 x 24 x 1"
	26, 43, 47, 51, 55	<b>3254</b>	24 x 24 x 1-1/2"

**PERFORMANCE SELECTION** Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	NRC + CAC	AC	Class	Light	Bio-Block	Humi-Guard+								
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	-	•	•	•	•	•	•	•
1.00	N/A	-	200	Class A	0.90	•	•	-	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain® portfolio and carry Declare™ certification.

**SUSPENSION SYSTEMS**



**Blizzard White – Suspension System Finish**  
 A color and texture coordinated suspension system to complement Optima® ceiling panels for a monolithic look and feel. Available for: Prelude® XL® and XL® HRC, Suprafine ML, XL, and XL HRC, Silhouette® XL® 1/4" and 1/8" Reveal, Interlude® XL® HRC

**ACCESSORIES (not included; ordered separately)**

**435** Stabilizer Clip (3/4" & 1")  
 Recommended for panels 60" and greater in length  
**NOTE:** Panels 60" up to 96" – One clip near mid-point of each long edge.  
 Panels 96" and over – Two clips at 1/3 points of each long edge.

**PHYSICAL DATA**

**Material**  
 3355 – Fiberglass with DuraBrite® acoustically transparent membrane; CAC backing  
 All other items – Fiberglass with DuraBrite acoustically transparent membrane

**Surface Finish**  
 DuraBrite scrim with factory-applied latex paint

**Fire Performance**  
 ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
 Type XII, Form 2, Pattern E  
 Fire Class A

**Humidity/Sag Resistance**  
 HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
 Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions (PB suffix items only)**  
**GREENGUARD Gold Certified**  
 This product has been UL validated to be Formaldehyde-Free.  
**UL.COM/ECV.**  
 Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Primary (Embodied) Energy**  
 See all LCA information on our EPDs.

**High Recycled Content**  
 Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
 3254 – R Factor – 6.0 (BTU units)  
 R Factor – 1.05 (Watts units)

**30-Year Performance Guarantee & Warranty**  
 When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)



**Weight; Square Feet/Carton**  
 1403 – 0.55 lbs/SF; 24 SF/ctn  
 1407 – 0.55 lbs/SF; 30 SF/ctn  
 1409 – 0.55 lbs/SF; 96 SF/ctn  
 1410 – 0.55 lbs/SF; 16 SF/ctn  
 1411 – 0.55 lbs/SF; 20 SF/ctn  
 1412, 1413 – 0.55 lbs/SF; 6 SF/ctn  
 1414, 3263, 3290 – 0.55 lbs/SF; 48 SF/ctn  
 1415 – 0.55 lbs/SF; 21 SF/ctn  
 3251 – 0.46 lbs/SF; 48 SF/ctn  
 1417 – 0.55 lbs/SF; 27 SF/ctn  
 1418 – 0.55 lbs/SF; 6 SF/ctn  
 3254 – 0.64 lbs/SF; 32.5 SF/ctn  
 3276 – 0.55 lbs/SF; 75 SF/ctn  
 3277 – 0.55 lbs/SF; 100 SF/ctn  
 3266 – 0.55 lbs/SF; 62.22 SF/ctn  
 3279 – 0.45 lbs/SF; 42 SF/ctn

**Minimum Order Quantity**  
 1 carton

**Metric Items Available**  
 3251M, 3254M, 3256M, 3257M, 3355M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

FIBERGLASS

# OPTIMA® OPTIMA®

*PB options now  
in Shapes!*

with Plant-based Binder  
Tegular  
fine texture

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/ catdws	Item No.	Dimensions (Inches)
9/16" Square Tegular	26, 43, 47, 51, 55	<b>3355</b>	24 x 24 x 1" □
	26, 43, 47, 51, 55	<b>3257</b> <b>3257PB</b>	24 x 48 x 1" □
	26, 43, 47, 51, 55	<b>3265</b> <b>3265PB</b>	24 x 60 x 1" □
	26, 43, 47, 51, 55	<b>3261</b> <b>3261PB</b>	24 x 72 x 1" □
	26, 43, 47, 51, 55	<b>3262</b> <b>3262PB</b>	24 x 96 x 1" □
	26, 43, 47, 51, 55	<b>3283</b>	27 x 30 x 1" □
	26, 43, 47, 51, 55	<b>3268</b>	28 x 30 x 1" □
	26, 43, 47, 51, 55	<b>3269</b>	28 x 60 x 1" □
	26, 43, 47, 51, 55	<b>3259</b>	30 x 30 x 1" □
	26, 43, 47, 51, 55	<b>3284</b>	30 x 54 x 1" □
	26, 43, 47, 51, 55	<b>3289</b>	30 x 56 x 1" □
	26, 43, 47, 51, 55	<b>3285</b>	30 x 60 x 1" □
	26, 43, 47, 51, 55	<b>3287</b>	42 x 48 x 1" □
	26, 43, 47, 51, 55	<b>3288</b>	44 x 48 x 1" □
	26, 43, 47, 51, 55	<b>3256</b> <b>3256PB</b>	48 x 48 x 1" □
	26, 43, 47, 51, 55	<b>3249</b>	48 x 54 x 1" □

**GREENGUARD**  
Gold Certified  
Formaldehyde-Free  
(details below)



**Declare**<sup>SM</sup>  
Living Building  
Challenge Compliant  
(PB Suffix Only)

**SUSTAIN**<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems  
(PB Suffix Only)

UP TO **71%** RECYCLED CONTENT

**LEED**<sup>SM</sup>

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LOCATION DEPENDENT PB ONLY PB ONLY PB ONLY

## PERFORMANCE SELECTION

Dots represent high level of performance.



UL Classified Acoustics			Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	=	NRC + CAC	AC	Fire	Light	Bio-Block	Humi-Guard+	VOC	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
0.90	26	-	200	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain® portfolio and carry Declare™ certification.

\* These items are not UL classified.





**OPTIMA®** *PB options now in Shapes!*  
**OPTIMA®**  
 with Plant-based Binder  
 Tegular  
 fine texture

**GREENGUARD Gold Certified**  
 Formaldehyde-Free  
 (details below)

**Declare™**  
 Living Building Challenge Compliant  
 (PB Suffix Only)

**SUSTAIN™**  
 High Performance Sustainable Ceiling Systems  
 (PB Suffix Only)

**UP TO 71% RECYCLED CONTENT**

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- low embodied carbon
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT      PB ONLY      PB ONLY      PB ONLY

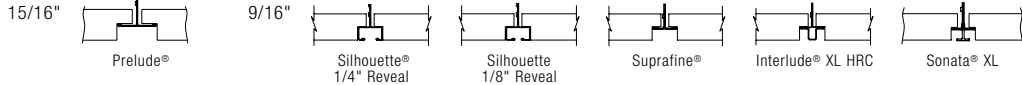
**VISUAL SELECTION**

**PERFORMANCE SELECTION** Dots represent high level of performance.

Edge Profile	Dimensions (Inches)	Performance Metrics															
		UL Classified Acoustics	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty	
OPTIMA® Size Capabilities 15/16" & 9/16" Square Tegular	1 CTN MIN Made-to-Order Sizes (3 Wks)	Non-PB 1" Thick		N/A	N/A	-	N/A	Class A	0.90	•	•	•	•	•	•	•	
		PB 1" Thick		N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•
		PB 1-1/2" Thick		N/A	N/A	-	N/A	Class A	0.90	•	•	-	•	•	•	•	•
	Non-PB 1" Thick		4" - 5-1/2"	9" - 96"	6" - 11-1/2"	6" - 96"	12" - 48"	4" - 120"									
	PB 1" Thick		4" - 5-1/2"	9" - 72"	6" - 11-1/2"	6" - 72"	12" - 48"	4" - 96"									
	PB 1-1/2" Thick		4" - 5-1/2"	9" - 96"	6" - 11-1/2"	6" - 96"	12" - 36-1/2"	4" - 120"	37" - 42-1/2"	4" - 120"	43" - 48"	4" - 89"					

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain® portfolio and carry Declare™ certification.

**SUSPENSION SYSTEMS**



**Blizzard White – Suspension System Finish**  
 A color and texture coordinated suspension system to complement Optima® ceiling panels for a monolithic look and feel. Available for: Prelude® XL® and XL® HRC, Suprafine ML, XL, and XL HRC, Silhouette® XL® 1/4" and 1/8" Reveal, Interlude® XL® HRC

**ACCESSORIES (not included; ordered separately)**

**435** Stabilizer Clip (3/4" & 1")  
 Recommended for panels 60" and greater in length  
**NOTE:** Panels 60" up to 96" – One clip near mid-point of each long edge.  
 Panels 96" and over – Two clips at 1/3 points of each long edge.

**PHYSICAL DATA**

**Material**  
 3355 – Fiberglass with DuraBrite® acoustically transparent membrane; CAC backing  
 All other items – Fiberglass with DuraBrite acoustically transparent membrane

**Surface Finish**  
 DuraBrite scrim with factory-applied latex paint

**Fire Performance**  
 ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
 Type XII, Form 2, Pattern E  
 Fire Class A

**Humidity/Sag Resistance**  
 HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
 Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions (PB suffix items only)**  
**GREENGUARD Gold Certified**  
 This product has been UL validated to be Formaldehyde-Free. **UL.COM/ECV.**  
 Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Primary (Embodied) Energy**  
 See all LCA information on our EPDs.

**High Recycled Content**  
 Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
 3254 – R Factor – 6.0 (BTU units)  
 R Factor – 1.05 (Watts units)



**30-Year Performance Guarantee & Warranty**  
 When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
 3283 – 0.55 lbs/SF; 57.5 SF/ctn  
 3249, 3256, 3257, 3262 – 0.55 lbs/SF; 96 SF/ctn  
 3259 – 0.64 lbs/SF; 75 SF/ctn  
 3261 – 0.55 lbs/SF; 72 SF/ctn  
 3265, 3285 – 0.55 lbs/SF; 100 SF/ctn  
 3268 – 0.55 lbs/SF; 70 SF/ctn  
 3269 – 0.55 lbs/SF; 93.33 SF/ctn  
 3284 – 0.55 lbs/SF; 90 SF/ctn  
 3287 – 0.55 lbs/SF; 112 SF/ctn  
 3288 – 0.55 lbs/SF; 117.33 SF/ctn  
 3355 – 0.47 lbs/SF; 48 SF/ctn  
 3289 – 0.40 lbs/SF; 93.33 SF/ctn

**Minimum Order Quantity**  
 1 carton

**Metric Items Available**  
 3251M, 3254M, 3256M, 3257M, 3355M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



FIBERGLASS

**OPTIMA®**  
**OPTIMA®** with Plant-based Binder  
**Vector®**  
 fine texture



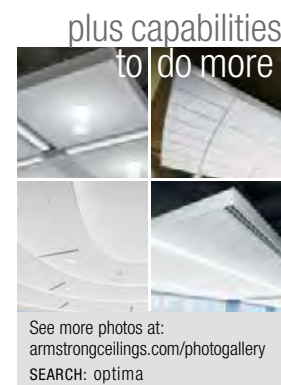
**DESIGNFlex™**  
 CEILING SYSTEMS



**Personalize Your Design!**  
 Mix and match different sizes and materials to reinvent your ceiling. More at:  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



Optima® Vector® panels with Prelude® XL® t15/16" suspension system (Pgs. 458-459)



Fine-textured acoustical panel is ideal for projects with limited plenum space: requires about 6" of clear space from the deck.

**KEY SELECTION ATTRIBUTES**

- new** • DESIGNFlex™ options include tailor-made sizes available to ship in 3 weeks
- 1/4" reveal between acoustical panels results in a monolithic appearance
- new** • Vector Trim Kit in Blizzard White finish for easy installation and bright visual
- Optima® PB panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Downward accessible for minimal plenum height
- Outstanding acoustical performance for open plan areas, both Articulation Class (190) and NRC (0.80-0.90)
- Smooth, clean durable finish – Washable Scratch-resistant Soil-resistant
- Energy-saving high light-reflective finish
- Items with PB suffix are manufactured with a plant-based binder
- Item 3901 available in Create!™ printed images and patterns see pages 302-304
- 30-Year Limited System Warranty against visible sag, mold, and mildew

**COLOR**







**DETAILS**



1. Optima® Vector®
2. Optima® Vector® with Prelude 15/16" suspension system
3. Optima® Vector® with fixture trim

# OPTIMA® OPTIMA® with Plant-based Binder Vector® fine texture

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)
 		<b>1466</b>	6 x 48 x 7/8"
 		<b>1467</b>	6 x 96 x 7/8"
		<b>3902*</b> <b>3902PB</b>	12 x 24 x 7/8"
		<b>3903*</b> <b>3903PB</b>	12 x 24 x 7/8"
		<b>3900</b> <b>3900PB</b>	24 x 24 x 7/8"
		<b>3901</b>	24 x 24 x 7/8"
		<b>3908</b> <b>3908PB</b>	24 x 48 x 7/8"
		<b>3906</b>	24 x 72 x 7/8"
		<b>3907</b>	24 x 96 x 7/8"
		<b>3904</b>	30 X 30 x 7/8"
		<b>3905</b>	30 X 30 x 7/8"
		<b>3909</b>	48 x 48 x 7/8"

### Size Capabilities

Width	Length
<b>Non-PB 7/8" Thick</b>	
4" – 11-1/2"	12" – 120"
12" – 30"	4" – 120"
30-1/2" – 48"	4" – 48"
<b>PB 7/8" Thick</b>	
12" – 30"	12" – 96"

**1 CTN MIN**  
**Made-to-Order**  
**Sizes**  
**(3 Wks)**

**GREENGUARD Gold Certified**  
Formaldehyde-Free  
(details below)

**PLANT BASED BINDER**  
As Noted

**Declare™**  
Living Building Challenge Compliant  
(PB Suffix Only)

**SUSTAIN™**  
High Performance Sustainable Ceiling Systems  
(PB Suffix Only)

**UP TO 71% RECYCLED CONTENT**

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED** (Energy management, construction waste mgmt, regional materials, design for flexibility, EPD, recyclable/extended producer resp., bio-based materials, recycled content, sourcing of raw materials, material ingredient reporting, low emitting materials, lighting quality, acoustics)

LOCATION DEPENDENT    PB ONLY    PB ONLY    PB ONLY

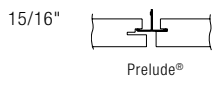
## PERFORMANCE SELECTION

Dots represent high level of performance. **\$\$\$**

UL Classified Acoustics	NRC	+	CAC	=	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
N/A	N/A	-	N/A	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•
N/A	26	-	N/A	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•
0.90	N/A	-	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•
0.80	26	-	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•
0.90	N/A	-	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•
0.90	N/A	-	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•
0.90	N/A	-	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•
0.90	N/A	-	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•
0.80	26	-	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•
0.90	N/A	-	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima® items with the PB suffix are included in the Sustain® portfolio and carry Declare™ certification. \* Items not UL classified for acoustics.

## SUSPENSION SYSTEMS



## VECTOR TRIM KITS

Item No.	Length	Color	Substrate	Pcs/Ctn
<b>VETK4ZW</b>	4"	Blizzard White	Steel	24
<b>VETK6ZW</b>	6"	Blizzard White	Steel	24
<b>VETK24ZW</b>	24"	Blizzard White	Steel	24
<b>VETK48ZW</b>	48"	Blizzard White	Steel	24
<b>VETK96ZW</b>	96"	Blizzard White	Steel	24

**Made-to-Order Sizes & Colors (4-6 Wks)**  
Length: 4" – 96"

## ACCESSORIES (must be ordered separately)

Item No.	Description
<b>441</b>	Vector Border Clip (required for installations with the suspension system resting on the wall molding). Primarily used for corners and special cutouts.
<b>442A</b>	Vector Hold-Down Clip (required for installation)
<b>7425 (24"), 7431 (30"), 7445 (48"), 7461 (60")</b>	Stabilizer Bars
<b>522</b>	Mid-point Clip 48" x 48" Vector panels only
<b>7870</b>	Spring Border Clip (For installations with the panel resting on the wall molding)

## PHYSICAL DATA

**Material**  
Fiberglass with DuraBrite® acoustically transparent membrane 3901, 3903, 3905 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing

**Surface Finish**  
DuraBrite scrim with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions (PB suffix items only)**  
**GREENGUARD Gold Certified**  
This product has been UL validated to be Formaldehyde-Free.  
**UL.COM/ECV.**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.



**Acoustical Details**  
Some items have CAC backing. CAC backing may be available as a special order.

**Insulation Value**  
R Factor – 3.5 (BTU units)  
R Factor – 0.62 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
1466 – 0.58 lbs/SF; 24 SF/ctn  
1467 – 0.58 lbs/SF; 42 SF/ctn  
3900, 3900PB, 3901, 3902, 3903 – 0.58 lbs/SF; 48 SF/ctn  
3904, 3905 – 0.59 lbs/SF; 75 SF/ctn  
3908, 3908PB – 0.56 lbs/SF; 96 SF/ctn  
3909 – 0.60 lbs/SF; 64 SF/ctn  
3906 – 0.57 lbs/SF; 72 SF/ctn  
3907 – 0.56 lbs/SF; 96 SF/ctn

**Minimum Order Quantity**  
1 carton

FIBERGLASS

# OPTIMA® Concealed

Concealed Suspension  
fine texture



DESIGNFlex™  
CEILING SYSTEMS



**Personalize Your Design!**  
Mix and match different sizes and materials to reinvent your ceiling. More at:  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: optima

Optima® Concealed panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

Fine texture acoustical panels with a fully concealed suspension system create a monolithic look with accessibility.

## KEY SELECTION ATTRIBUTES



- DesignFlex™ options include tailor-made sizes available to ship in 3 weeks
- Large format acoustical panels
- Downward accessible for minimal plenum height
- Outstanding acoustical performance for open plan areas, both Articulation Class (190) and NRC (0.90)
- Smooth, clean, durable finish –
  - Washable
  - Scratch-resistant
  - Soil-resistant
- Energy-saving, high light-reflective finish
- 30-Year Limited System Warranty against visible sag, mold, and mildew

## COLOR



White  
(WH)

## DETAILS



1



2

1. Optima® Concealed
2. Optima® Concealed with Prelude® XL® HD 15/16" suspension system

# OPTIMA® Concealed

Concealed Suspension  
fine texture

UP TO 71% RECYCLED CONTENT







Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
	106	<b>8537</b>	24 x 48 x 7/8"
	106	<b>8535</b>	24 x 72 x 7/8"
	106	<b>8536</b>	24 x 96 x 7/8"
	106	<b>8534</b>	30 x 30 x 7/8"
	106	<b>8538</b>	48 x 48 x 7/8"
	106	<b>8539</b>	48 x 48 x 7/8"

Size Capabilities	Width	Length
1 CTN MIN Made-to-Order Sizes (3 Wks)	7/8" Thick	
	4" - 11-1/2"	12" - 96"
	12" - 30"	4" - 96"
	30-1/2" - 48"	4" - 48"

## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics			Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+	CAC													
0.90	-	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•
0.90	-	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•
0.90	-	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•
0.90	-	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•
0.90	-	-	190	Class A	0.90	•	•	•	-	•	•	•	•	•	•
0.80	26	-	190	Class A	0.90	•	•	•	-	•	•	•	•	-	•
N/A	-	-	N/A	Class A	0.90	•	•	•	-	•	•	•	•	-	•

\$\$\$

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## FIXTURE TRIM

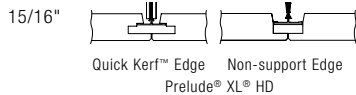
Item No.	Length	Pcs	Color
<b>FTP4ZW</b>	4" Concealed Fixture Kit	24	Blizzard White
<b>FTP6ZW</b>	6" Concealed Fixture Kit	24	Blizzard White
<b>FTP24ZW</b>	24" Concealed Fixture Kit	24	Blizzard White
<b>FTP48ZW</b>	48" Concealed Fixture Kit	24	Blizzard White
<b>FTP96ZW</b>	96" Concealed Fixture Kit	24	Blizzard White
<b>Other Size Fixture Trims</b>	4" to 96" Trim Pieces	-	Blizzard White (custom colors available)

Fixture trim kits include 24 straight trim pieces, 24 corner brackets, screws, and pop rivets. Example: For a space with 24" x 48" fixtures, order (1) 24" kit FTP24ZW and (1) 48" kit FTP48ZW. This will frame (12) 24" x 48" fixtures.

## ACCESSORIES (must be ordered separately)

Item No.	Description
<b>441</b>	Border Clip. Used for corners and special cutouts.
<b>442A</b>	Hold-Down Clip
<b>7425 (24")</b>	Stabilizer Bars
<b>7431 (30")</b>	
<b>7445 (48")</b>	
<b>7461 (60")</b>	
<b>522</b>	Mid-point Clip (Needed for panels over 30" wide)
<b>7870</b>	Spring Border Clip (For installations with the panel resting on the wall molding)

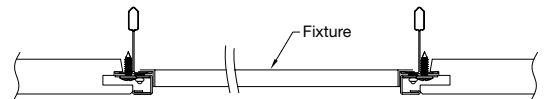
## SUSPENSION SYSTEMS



## AXIOM® TRIM DETAIL



Optima® Concealed panels with Axiom® Vector® trim for cloud-friendly design. Blizzard White color and texture finish available to complement Optima ceiling panels.



## PHYSICAL DATA

**Material**  
8534, 8535, 8536, 8537, 8538 - Fiberglass with DuraBrite® acoustically transparent membrane. 8539 - Fiberglass with DuraBrite acoustically transparent membrane; CAC backing.

**Surface Finish**  
DuraBrite scrim with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**Acoustical Details**  
Some items have CAC backing. CAC backing may be available as a special order.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
R Factor - 3.5 (BTU units)  
R Factor - 0.62 (Watts units)

**Design Consideration**  
Use fixture trim kit around all lights, diffusers, and other ceiling penetrations to avoid exposed suspension system

and panel edges. Panel sizes less than 24" x 24" are not recommended for full field installations.

Border panels in a seismic installation will not be accessible. To ensure border panels are accessible in other areas, consult installation instructions section 3.7.2

**Installation Consideration**  
Optima® Concealed panels must be installed on a square, level suspension system as tolerance is near zero.

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
8534 - 0.55 lbs/SF; 75 SF/ctn  
8535 - 0.55 lbs/SF; 72 SF/ctn  
8536, 8537 - 0.55 lbs/SF; 96 SF/ctn  
8538, 8539 - 0.55 lbs/SF; 64 SF/ctn

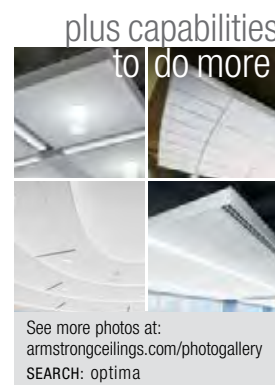
**Minimum Order Quantity**  
1 carton

# OPTIMA® Health Zone™

Square Lay-in  
fine texture



**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems  
(PB Suffix Only)



plus capabilities  
to do more

See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: optima

Optima® Health Zone™ Square Tegular panels with Prelude® XL® 15/16" suspension system (Pgs 458-459)

This absorptive ceiling panel meets USDA/FSIS guidelines for use in food preparation/kitchens, and Clean Room assemblies.

## KEY SELECTION ATTRIBUTES

- Optima® Health Zone™ PB panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Items with PB suffix are manufactured with a plant-based binder
- Smooth, clean, durable finish – Impact-resistant, Scratch-resistant, and Soil-resistant
- Long-lasting water-repellency
- Washable and Scrubbable
- Clean Rooms up to ISO Class 5 (Items 3114, 3115 with Clean Room™ suspension system)
- Exceeds FGI guidelines for acoustics and cleanability in general healthcare spaces
- Safe for use with disinfectants
- Meets USDA/FSIS guidelines for use in food processing areas
- Energy-saving high light-reflective finish
- Visual complements Ultima®, Ultima® Health Zone™, and Optima® panels
- 30-Year Limited System Warranty against visible sag, mold/mildew, and bacterial growth

## TYPICAL APPLICATIONS

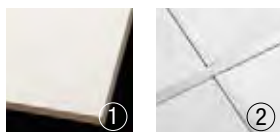
- Clean Rooms
- Medical facilities
- Data centers
- Healthcare:
- Assists in addressing HIPAA, HCAHPS, and FGI requirements
- Patient rooms (walls-to-deck)
- Treatment rooms (walls-to-deck)
- Nurses' stations
- Emergency rooms
- Semi-restricted surgical areas
- Kitchens/food preparation areas
- Laboratories

## COLOR



White  
(WH)

## DETAILS



1. Optima® Health Zone™ Square Lay-in
2. Optima® Health Zone™ Square Lay-in with Clean Room™ 15/16" suspension system

# OPTIMA® Health Zone™

## Square Lay-in fine texture



UP TO **71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT      PB ONLY      PB ONLY

### VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)
	armstrongceilings.com/catdwgs		
<b>OPTIMA® Health Zone™</b>			
15/16" Square Lay-in	1, 6, 7	<b>3114PB</b>	24 x 24 x 1" □
	1, 6, 7	<b>3314</b>	24 x 24 x 1-1/2" □
	1, 6, 7	<b>3115PB</b>	24 x 48 x 1" □
	1, 6, 7	<b>3315</b>	24 x 48 x 1-1/2" □

### OPTIMA® Size Capabilities

15/16" Square Lay-in	1 CTN MIN Made-to-Order Sizes (3 Wks)	PB 1" Thick
		4" - 42-1/2"    4" - 48"
		43" - 48"        4" - 42"
15/16" Square Lay-in	1 CTN MIN Made-to-Order Sizes (3 Wks)	Non-PB 1-1/2" Thick
		4" - 5-1/2"      9" - 48"
		6" - 11-1/2"     6" - 48"
		12" - 42-1/2"    4" - 48"
		43" - 48"        4" - 42"

### PERFORMANCE SELECTION

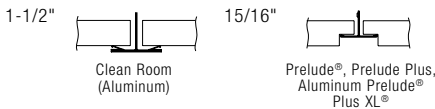
Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash	Scrub	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC =					Bio-Block+	Humi-Guard+										
0.95	N/A	-	190 Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•	•
0.95	29	-	190 Class A	0.86	•	•	-	•	•	•	•	•	•	•	•	-	•
0.95	N/A	-	190 Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•	•
0.95	29	-	190 Class A	0.86	•	•	-	•	•	•	•	•	•	•	•	-	•
N/A	N/A	-	N/A Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•	•

<sup>1</sup>Total Acoustics® ceiling panels have an ideal combination of noise-reduction and sound-blocking performance in one product.

### SUSPENSION SYSTEMS

\*CAC 29 achieved with Clean Room™ suspension system; not UL Classified for acoustics.



### PHYSICAL DATA

**Material**  
3114PB, 3115PB – Fiberglass with DuraBrite® scrim acoustically transparent membrane. 3314, 3315, 3316, 3317 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing.

**Surface Finish**  
DuraBrite with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E, Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew & Bacteria Protection**  
Optima® HealthZone™ ceiling panels with BioBlock® Plus performance resist the growth of mold and mildew, and resist odor- and stain-causing bacterial growth.

**VOC Emissions (PB suffix items only)**  
**GREENGUARD Gold Certified**  
This product has been UL validated to be Formaldehyde-Free. [UL.COM/ECV](http://UL.COM/ECV).  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Acoustical Details**  
Some items have CAC backing. CAC backing may be available as a special order. CAC value of 37 can be achieved by backloading soft fiber products with item 769 or 770.

**Insulation Value**  
R Factor – 4.0 (BTU units)  
R Factor – 0.70 (Watts units)



**Application Considerations**  
For Clean Room installations, use full-size panels. Testing for Clean Room 5 (Class 100) was completed with full-size 15/16" gasketed suspension system. For Clean Rooms that require field-cut perimeter panels, use Lay-in panels (3114, 3115) or Tegular panels (3214, 3215) with Lay-in field-cut panels at the perimeter.

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Cleaning Recommendations**  
To clean panel, use a clean, white cloth with water or a mild detergent and wipe surface. To disinfect panel, lightly spray surface and wipe clean with a clean, white cloth. Acceptable colorless disinfectants include:  
• Sodium hypochlorite    • Hydrogen peroxide  
• Quaternary ammonium

**Weight; Square Feet/Carton**  
3114PB – 0.46 lbs/SF; 48 SF/ctn  
3115PB, 3315 – 0.45 lbs/SF; 96 SF/ctn  
3314, 3316 – 0.67 lbs/SF; 32 SF/ctn

**Minimum Order Quantity**  
1 carton



FIBERGLASS

# OPTIMA® Health Zone™

Tegular  
fine texture



**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems  
(PB Suffix Only)



Optima® Health Zone™ Square Tegular panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

plus capabilities  
to do more



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: optima

This absorptive ceiling panel meets USDA/FSIS guidelines for use in food preparation/kitchens, and Clean Room assemblies.

## KEY SELECTION ATTRIBUTES

- Optima® Health Zone™ PB panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Items with PB suffix are manufactured with a plant-based binder
- Smooth, clean, durable finish – Impact-resistant, Scratch-resistant, and Soil-resistant
- Long-lasting water-repellency
- Washable and Scrubbable
- Clean Rooms up to ISO Class 5 (Items 3214, 3215 with Clean Room™ suspension system)
- Exceeds FGI guidelines for acoustics and cleanability in general healthcare spaces
- Safe for use with disinfectants
- Meets USDA/FSIS guidelines for use in food processing areas
- Energy-saving high light-reflective finish
- Visual complements Ultima®, Ultima® Health Zone™, and Optima® panels
- 30-Year Limited System Warranty against visible sag, mold/mildew, and bacterial growth

## TYPICAL APPLICATIONS

- Clean Rooms
- Medical facilities
  - Data centers
- Healthcare:
- Assists in addressing HIPAA, HCAHPS, and FGI requirements
  - Patient rooms (walls-to-deck)
  - Treatment rooms (walls-to-deck)
  - Nurses' stations
  - Emergency rooms
  - Semi-restricted surgical areas
  - Kitchens/food preparation areas
  - Laboratories

## COLOR



White  
(WH)

## DETAILS (Other Suspension Systems compatible. Refer to listing on page 361.)



1. Optima® Health Zone™ 15/16" Square Tegular
2. Optima® Health Zone™ 9/16" Square Tegular
3. Optima® Health Zone™ Square Tegular with Prelude XL 15/16" suspension system
4. Optima® Health Zone™ PB Square Tegular with Interlude® XL® HRC 9/16" suspension system



FIBERGLASS



# OPTIMA® Health Zone™

Tegular  
fine texture



UP TO 71% RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- lowbased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT      PB ONLY      PB ONLY

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)
15/16" Square Tegular		3214PB	24 x 24 x 1"
		3316	24 x 24 x 1-1/2"
		3215PB	24 x 48 x 1"
		3317	24 x 48 x 1-1/2"
9/16" Square Tegular		3216PB	24 x 24 x 1"
		3217PB	24 x 48 x 1"

## OPTIMA® Size Capabilities

Size	1 CTN MIN	Made-to-Order Sizes (3 Wks)	Thickness
15/16" & 9/16" Square Tegular	1 CTN MIN	Made-to-Order Sizes (3 Wks)	PB 1" Thick
			4" - 42-1/2"    4" - 48"
			43" - 48"        4" - 42"
15/16" & 9/16" Square Tegular	1 CTN MIN	Made-to-Order Sizes (3 Wks)	Non-PB 1-1/2" Thick
			4" - 5-1/2"    9" - 48"
			6" - 11-1/2"   6" - 48"
			12" - 42-1/2" 4" - 48"
			43" - 48"       4" - 42"

## PERFORMANCE SELECTION

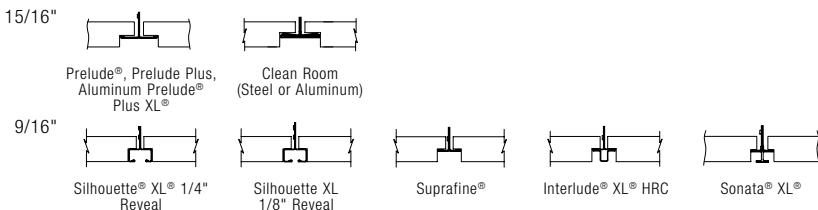
Dots represent high level of performance.

UL Classified Acoustics	NRC	+ CAC	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Humi-Guard+	Certified Low VOC Emissions	Water Repel	Wash	Scrub	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
0.95	N/A	-	190	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0.95	29	-	190	Class A	0.86	•	•	-	•	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0.95	29	-	190	Class A	0.86	•	•	-	•	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•	•	•
0.95	N/A	-	190	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	N/A	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•	•	•

<sup>1</sup>Total Acoustics® ceiling panels have an ideal combination of noise-reduction and sound-blocking performance in one product.

## SUSPENSION SYSTEMS

\*CAC 29 achieved with Clean Room™ suspension system; not UL Classified for acoustics.



## PHYSICAL DATA

**Material**  
3214PB, 3215PB, 3216PB, 3217PB – Fiberglass with DuraBrite® scrim acoustically transparent membrane. 3314, 3315, 3316, 3317 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing.

**Surface Finish**  
DuraBrite with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E, Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew & Bacteria Protection**  
Optima® HealthZone™ ceiling panels with BioBlock® Plus performance resist the growth of mold and mildew, and resist odor- and stain-causing bacterial growth.

**VOC Emissions (PB suffix items only)**  
**GREENGUARD Gold Certified**  
This product has been UL validated to be Formaldehyde-Free. [UL.COM/ECV](http://UL.COM/ECV).

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Acoustical Details**  
Some items have CAC backing. CAC backing may be available as a special order. CAC value of 37 can be achieved by backloading soft fiber products with item 769 or 770.

**Insulation Value**  
R Factor – 4.0 (BTU units)  
R Factor – 0.70 (Watts units)



**Application Considerations**  
For Clean Room installations, use full-size panels. Testing for Clean Room 5 (Class 100) was completed with full-size 15/16" gasketed suspension system. For Clean Rooms that require field-cut perimeter panels, use Lay-in panels (3114, 3115) or Tegular panels (3214, 3215) with Lay-in field-cut panels at the perimeter.

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Cleaning Recommendations**  
To clean panel, use a clean, white cloth with water or a mild detergent and wipe surface. To disinfect panel, lightly spray surface and wipe clean with a clean, white cloth. Acceptable colorless disinfectants include:  
• Sodium hypochlorite      • Hydrogen peroxide  
• Quaternary ammonium

**Weight; Square Feet/Carton**  
3214PB, 3216PB – 0.46 lbs/SF; 48 SF/ctn  
3215PB, 3217PB – 0.45 lbs/SF; 96 SF/ctn  
3317 – 0.75 lbs/SF; 64 SF/ctn  
3316 – 0.67 lbs/SF; 32 SF/ctn

**Minimum Order Quantity**  
1 carton

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: optima health zone)  
BPCS-4261-718

LEED® is a registered trademark of the U.S. Green Building Council  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America



361



FIBERGLASS

# OPTIMA® Radial

## Custom Lay-in & Tegular Ceiling System

fine texture



Optima® Radial Custom White with Prelude® XL® 15/16" custom suspension system (Pgs. 458-459)



Optima® panels designed for dramatic installations, requiring a fine-textured visual and performance.

### KEY SELECTION ATTRIBUTES

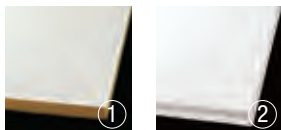
- Outstanding acoustical performance in both Articulation Class (190-200) and NRC (0.90-0.95)
- Smooth, clean, durable finish – Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Energy-saving high light-reflective finish
- Sag resistant large panels
- 30-Year Limited System Warranty against visible sag and mold and mildew

### COLOR



White  
(WH)

### DETAILS



1. Optima® Square Lay-in
2. Optima® Square Tegular

# OPTIMA® Radial

## Custom Lay-in & Tegular Ceiling System

fine texture

UP TO **71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

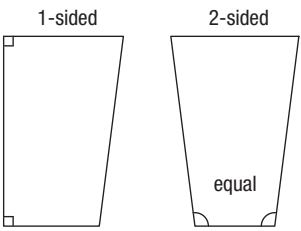
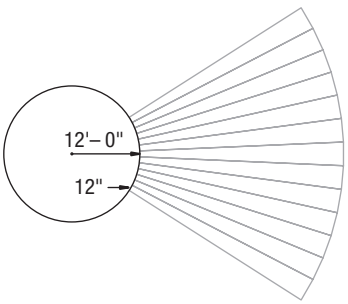
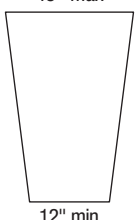
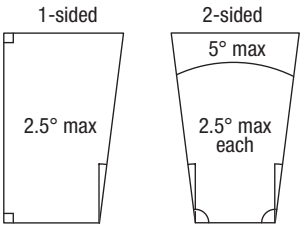
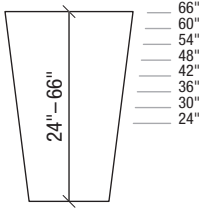
LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

\$\$\$

### OPTIMA® RADIAL SYSTEM OVERVIEW

Product	Panels	Length	Width	System Capabilities	Suspension System
OPTIMA Lay-in or Tegular	Custom Trapezoid Lay-in, Custom Trapezoid Tegular	6" intervals from 24"-66"	12"-48"	<ul style="list-style-type: none"> <li>Meets taper up to 5°</li> <li>Minimum inside radius 12"</li> <li>Center must be a separate component</li> </ul>	Interlude®, Suprafine®, Prelude® (accessible) with custom cross tees
	 <p>One-sided or symmetrical two-sided trapezoid</p>	<p><b>One-sided:</b></p> <ul style="list-style-type: none"> <li>Refer to Optima® Radial Technical Guide for additional capabilities</li> </ul> <p><b>Two-sided:</b></p> <ul style="list-style-type: none"> <li>Each tapered side MUST be symmetrical</li> <li>Refer to Optima Radial Technical Guide for additional capabilities</li> </ul>	 <p>Minimum radius 12'-0" (12" minimum panel edge)</p>	<p><b>Minimum Radius:</b></p> <ul style="list-style-type: none"> <li>The minimum achievable radius is 12'. This is based on a minimum panel edge of 12" with the maximum tapers noted below</li> <li>Optima Radial panels CANNOT be used inside this 12' radius – drywall may be a suitable alternative</li> </ul>	
	 <p>48" max 12" min Width 12" - 48"</p>	<p><b>Width:</b></p> <ul style="list-style-type: none"> <li>Trapezoid panels are available in widths from 12" to 48"</li> </ul>	 <p>1-sided 2.5° max 2-sided 5° max, 2.5° max each Taper maximum 2.5° angle per side</p>	<p><b>Taper:</b></p> <ul style="list-style-type: none"> <li>The maximum taper angle per side for all trapezoids is 2.5 degrees</li> <li>For two-sided trapezoids, the taper angle must be equal on both sides (i.e., symmetrical) for a maximum of 5 degrees</li> </ul>	
	 <p>Length 24"-66" in 6" increments</p>	<p><b>Length:</b></p> <ul style="list-style-type: none"> <li>8 lengths are available in the following 6" increments: 24", 30", 36", 42", 48", 54", 60", and 66"</li> </ul>			

NOTE: This information does not apply to WoodWorks® or MetalWorks™ Radial ceilings. Please consult TechLine at 1 877 276-7876, or visit [armstrongceilings.com/radial](http://armstrongceilings.com/radial) for more details.

### PHYSICAL DATA

**Material**  
Fiberglass with DuraBrite® acoustically transparent membrane with or without CAC backing

**Surface Finish**  
DuraBrite with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceilings with BioBlock® performance resist the growth of mold and mildew.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
3/4" – R Factor – 3.0 (BTU units) 0.53 (Watts units)  
1" – R Factor – 4.0 (BTU units) 0.70 (Watts units)  
1-1/2" – R Factor – 6.0 (BTU units) 1.05 (Watts units)

**Weight; Square Feet/Carton**  
Sizes, weight, and square feet vary with order

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Minimum Order Quantity**  
1 carton

# PAINTED NUBBY™

Square Lay-in & Tegular  
medium texture



Painted Nubby™ panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

This panel offers excellent acoustical absorption with a medium-textured fabric visual.

## KEY SELECTION ATTRIBUTES

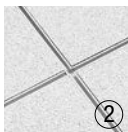
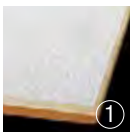
- Outstanding acoustical performance; both Articulation Class (180-190) and NRC (0.85-0.95)
- Fiberglass substrate resists mold and mildew
- 30-Year Limited System Warranty against visible sag, mold, and mildew

## COLOR



White  
(WH)

## DETAILS



1. Painted Nubby™ Tegular
2. Painted Nubby™ Tegular with Silhouette® 9/16" suspension system 1/4" reveal

# PAINTED NUBBY™

## Square Lay-in & Tegular medium texture

UP TO **71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

### VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
--------------	--	----------	---------------------

#### PAINTED NUBBY™ Square Lay-in

15/16" Square Lay-in	1	<b>3102</b>	24 x 24 x 1"	
	1	<b>3101</b>	24 x 48 x 3/4"	
	1	<b>3103</b>	24 x 48 x 1"	
	1	<b>3104</b>	48 x 96 x 1"	

#### PAINTED NUBBY Tegular

15/16" Square Tegular	8	<b>3200</b>	24 x 24 x 1"	
9/16" Square Tegular	26, 43, 47, 51, 55	<b>3201</b>	24 x 24 x 1"	

#### Size Capabilities

	Width	Length
15/16" or 9/16" Square Tegular	<b>Made-to-Order Sizes (3-4 Wks)</b>	<b>3/4" or 1" Thick</b> 4" - 48"      4" - 120"

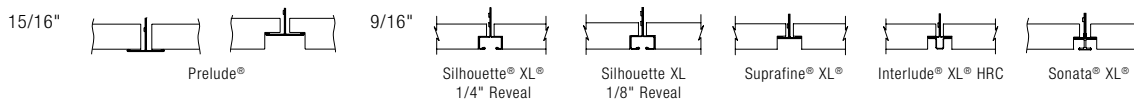
<sup>1</sup>Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>		Articulation Class		Fire Performance		Light Reflect		Mold & Mildew Protection		Sag Resist		Certified Low VOC Emissions		Durability		Recycled Content		Recycle Program		30-Yr Warranty	
NRC	+	CAC	=	AC	Class	Fire	Light	Mold & Mildew	Sag	Certified	Durability	Recycled	Recycle	30-Yr	Warranty								
0.95	N/A	-	190	Class A	0.84	•	•	•	-	Std	•	-	•										
0.85	N/A	-	180	Class A	0.84	•	•	•	-	Std	•	-	•										
0.95	N/A	-	190	Class A	0.84	•	•	•	-	Std	•	-	•										
0.95	N/A	-	190	Class A	0.84	•	•	•	-	Std	•	-	•										
0.95	N/A	-	190	Class A	0.84	•	•	•	-	Std	•	-	•										

### SUSPENSION SYSTEMS



### PHYSICAL DATA

**Material**  
Fiberglass with fabric facing

**Surface Finish**  
Factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled.)

**ASTM E1264 Classification**  
Type XII, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Acoustical Details**  
A CAC value of 37 can be achieved by backloading fiberglass products with Item 769 or 770.

**Insulation Value**  
3101 - R Factor - 3.0 (BTU units)  
R Factor - 0.53 (Watts units)  
3102, 3103, 3104, 3200, 3201 - R Factor - 4.0 (BTU units)  
R Factor - 0.70 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
3101 - 0.44 lbs/SF; 128 SF/ctn  
3102, 3103 - 0.46 lbs/SF; 96 SF/ctn  
3104 - 0.46 lbs/SF; 128 SF/ctn  
3200, 3201 - 0.46 lbs/SF; 48 SF/ctn

**Minimum Order Quantity**  
1 carton, excludes made-to-order panels

**Metric Items Available**  
3102M, 3101M, 3103M, 3200M, 3201M - Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

# PEBBLE™

Square Lay-in  
medium texture



Pebble™ panel with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

This economical, medium-textured panel provides excellent sound absorption options.

## KEY SELECTION ATTRIBUTES

- Excellent sound absorption (perforated items)
- Easy-to-clean, durable surface
- Economical solution
- 30-Year Limited System Warranty against visible sag, mold, and mildew

## COLOR



White  
(WH)

## DETAILS



1. Pebble™
2. Pebble™ with Prelude® 15/16" suspension system

# PEBBLE™

## Square Lay-in medium texture

UP TO 71% RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED® energy management, construction waste mgmt, regional materials, design for flexibility, EPD, recyclable/extended producer resp., bio-based materials, recycled content, sourcing of raw materials, material ingredient reporting, low emitting materials, lighting quality, acoustics

LOCATION DEPENDENT

### VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
--------------	---	----------	---------------------

#### PEBBLE™ High NRC (Perforated)

15/16" Square Lay-in	1	2988	24 x 24 x 1"
	1	2989	24 x 48 x 1"

#### PEBBLE™ High NRC (Perforated)

Size Capabilities	Width	Length
15/16" Square Lay-in	1" Thick 12" - 30"	12" - 60"

Made-to-Order Sizes (3-4 Wks)

#### PEBBLE (Perforated)

15/16" Square Lay-in	1	2983	24 x 48 x 5/8"
	1	2970	24 x 60 x 5/8"

#### PEBBLE (Perforated and Unperforated)

15/16" Square Lay-in	1	2968	24 x 48 x 5/8"
----------------------	---	------	----------------

#### PEBBLE (Unperforated)

Size Capabilities	Width	Length
15/16" Square Lay-in	5/8" Thick 12" - 30"	12" - 60"

Made-to-Order Sizes (3-4 Wks)

<sup>1</sup>Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### PERFORMANCE SELECTION

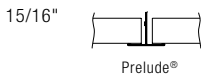
Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash	Scrub	Impact	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	=													
0.80	N/A	-	Class A	0.89	•	•	-	-	•	•	•	•	•	-	•
0.80	N/A	-	Class A	0.89	•	•	-	-	•	•	•	•	•	-	•
N/A	N/A	-	N/A	0.89	•	•	-	•	•	•	•	•	•	-	•
0.70	N/A	-	Class A	0.89	•	•	-	-	•	•	•	•	•	-	•
0.70	N/A	-	Class A	0.89	•	•	-	-	•	•	•	•	•	-	•
0.50	N/A	-	Class A	0.89	•	•	-	•	•	•	•	•	•	-	•
N/A	N/A	-	N/A	0.89	•	•	-	•	•	•	•	•	•	-	•

UL logo, NRC icon, CAC icon, Total Acoustics icon, Fire Performance icon, Light Reflect icon, Mold & Mildew Protection icon, Sag Resist icon, Certified Low VOC Emissions icon, Water Repel icon, Wash icon, Scrub icon, Impact icon, Soil icon, Recycled Content icon, Recycle Program icon, 30-Yr Warranty icon

Durability: Water Repel, Wash, Scrub, Impact, Soil

### SUSPENSION SYSTEMS



### PHYSICAL DATA

- Material**  
Fiberglass with vinyl facing
- Surface Finish**  
Scrubable vinyl film facing (UV protected)
- Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).
- ASTM E1264 Classification**  
Type XII, Form 1, Pattern E C  
Fire Class A
- Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

- Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.
- High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.
- Acoustical Details**  
A CAC value of 37 can be achieved by backloading fiberglass products with Item 769 or 770.
- Insulation Value**  
2968, 2970, 2983 - R Factor - 2.6 (BTU units)  
R Factor - 0.46 (Watts units)  
2988, 2989 - R Factor - 4.0 (BTU units)  
R Factor - 0.70 (Watts units)

- 30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)
- Weight; Square Feet/Carton**  
2968, 2983 - 0.20 lbs/SF; 128 SF/ctn  
2970 - 0.20 lbs/SF; 120 SF/ctn  
2988, 2989 - 0.31 lbs/SF; 80 SF/ctn
- Minimum Order Quantity**  
1 carton, excludes made-to-order panels.
- Metric Items Available**  
2983M, 2970M, 2988M, 2989M, 2968M - Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

# RANDOM FISSURED™

Square Lay-in  
medium texture

UP TO **71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengene](http://armstrongceilings.com/greengene)

LEED® energy management construction waste mgmt regional materials design for flexibility EPD recyclable/extended producer resp. biobased materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

LOCATION DEPENDENT

\$\$\$



This economical panel provides standard-to-good sound absorption with a medium-textured visual.

## KEY SELECTION ATTRIBUTES

- Excellent sound absorption (perforated options)
- Easy-to-clean, durable surface
- Economical
- 30-Year Limited System Warranty against visible sag, mold, and mildew

## COLOR



## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
--------------	---	----------	---------------------

### RANDOM FISSURED™ (Perforated)

15/16" Square Lay-in	1	<b>2908</b>	24 x 24 x 5/8"
	1	<b>2910</b>	24 x 48 x 5/8"

### RANDOM FISSURED (Unperforated)

15/16" Square Lay-in	1	<b>2909</b>	24 x 24 x 5/8"
	1	<b>2911</b>	24 x 48 x 5/8"

### RANDOM FISSURED™ (Perforated & Unperforated) Size Capabilities

	Width	Length
15/16" Square Lay-in	<b>Made-to-Order Sizes (3-4 Wks)</b> 5/8" Thick 12" - 30"	12" - 60"

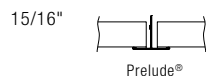
## PERFORMANCE

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash	Scrub	Impact	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC =														
0.70	N/A	-	Class A	0.72	•	•	-	•	•	•	•	•	-	•	
0.70	N/A	-	Class A	0.72	•	•	-	•	•	•	•	•	-	•	
0.55	N/A	-	Class A	0.72	•	•	-	•	•	•	•	•	-	•	
0.55	N/A	-	Class A	0.72	•	•	-	•	•	•	•	•	-	•	
N/A	N/A	-	Class A	0.72	•	•	-	•	•	•	•	•	-	•	

<sup>1</sup>Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Fiberglass with vinyl facing

**Surface Finish**  
Scrubable vinyl film facing (UV protected)

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
2908, 2910 – Type XII, Form 1, Pattern E C  
2909, 2911 – Type XII, Form 1, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Acoustical Details**  
A CAC value of 37 can be achieved by backloading fiberglass products with item 769 or 770.

**Insulation Value**  
R Factor - 2.6 (BTU units)  
R Factor - 0.46 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
0.17 lbs/SF; 128 SF/ctn

**Minimum Order Quantity**  
1 carton, excludes made-to-order panels

**Metric Items Available**  
Items 2908M, 2910M, 2909M, 2911M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



FIBERGLASS



# SHASTA®

## Square Lay-in medium texture

UP TO **71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT



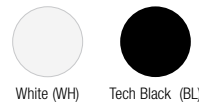
Shasta® panel with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

This economical panel provides sound absorption with a medium-textured, easy-to-clean, durable vinyl surface.

### KEY SELECTION ATTRIBUTES

- Excellent sound absorption (perforated options)
- Easy-to-clean, durable surface
- Economical
- 30-Year Limited System Warranty against visible sag, mold, and mildew

### COLOR



### VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No. ♦	Dimensions (Inches)
--------------	--	------------	---------------------

#### SHASTA® (Perforated)

15/16" Square Lay-in	1	<b>2904</b>	24 x 24 x 5/8" □
	1	<b>2906</b> __	24 x 48 x 5/8" □

#### SHASTA (Unperforated)

15/16" Square Lay-in	1	<b>2905</b> __	24 x 24 x 5/8" □
	1	<b>2907</b>	24 x 48 x 5/8" □

#### SHASTA® (Perforated & Unperforated) Size Capabilities

	Width	Length
15/16" Square Lay-in	<b>Made-to-Order Sizes (3-4 Wks)</b> 5/8" Thick 12" - 30"	12" - 60"

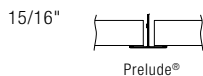
### PERFORMANCE Dots represent high level of performance.

UL Classified Acoustics		NRC	+ CAC =	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash	Scrub	Impact	Soil	Recycled Content	Recycle Program	30-Yr Warranty
UL	UL																
0.70	N/A	•	-	Class A	0.72	•	•	-	-	•	•	•	•	•	-	-	•
0.70	N/A	•	-	Class A	0.72	•	•	-	-	•	•	•	•	•	-	-	•
0.50	N/A	-	-	Class A	0.72	•	•	-	•	•	•	•	•	•	-	-	•
0.50	N/A	-	-	Class A	0.72	•	•	-	•	•	•	•	•	•	-	-	•
N/A	N/A	-	-	Class A	0.72	•	•	-	•	•	•	•	•	•	-	-	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

♦ Add 2-letter color suffix to item number when specifying or ordering (e.g., 2906 B L).

### SUSPENSION SYSTEMS



### PHYSICAL DATA

**Material**  
Fiberglass with vinyl facing

**Surface Finish**  
Scrubable vinyl film facing (UV protected)

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
2904, 2906 – Type XII, Form 1, Pattern E C  
2905, 2907 – Type XII, Form 1, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Acoustical Details**  
A CAC value of 37 can be achieved by backloading fiberglass products with item 769 or 770.

**Insulation Value**  
R Factor - 2.6 (BTU units)  
R Factor - 0.46 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
0.17 lbs/SF; 128 SF/ctn

**Minimum Order Quantity**  
1 carton, excludes made-to-order panels

**Metric Items Available**  
Items 2904M, 2906M, 2905M, 2907M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



FIBERGLASS

# School Zone® FINE FISSURED™ & School Zone® GEORGIAN™

Square Lay-in  
medium texture



This panel is a good choice for classrooms with economical, non-directional ceilings and improved acoustics.

## KEY SELECTION ATTRIBUTES

- Get total noise control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics® performance
- Excellent sound absorption – products can help comply with ANSI S12.60 classroom guidelines
- Economical
- Non-directional visual reduces scrap and installation time
- 30-Year Limited System Warranty against visible sag, mold, and mildew

## TYPICAL APPLICATIONS

- Schools
- Healthcare – assists in addressing HIPAA and FGI acoustical requirements
- Libraries/band rooms
- Corridors

## COLOR



White  
(WH)

## DETAILS (Other Suspension Systems compatible. Refer to listing on page 371.)



1. School Zone® Fine Fissured™ Square Lay-in
2. School Zone® Georgian™
3. Fine Fissured™ Square Lay-in with Prelude® 15/16" suspension system
4. School Zone® Georgian™ with Prelude® 15/16" suspension system

# School Zone® FINE FISSURED™ & School Zone® GEORGIAN™

Square Lay-in  
medium texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **56%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED** energy management construction waste mgmt regional materials design for flexibility EPD recyclable/extended producer resp. bio-based materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

LOCATION DEPENDENT

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/caldwgs">armstrongceilings.com/caldwgs</a>	Item No.	Dimensions (Inches)
<b>School Zone® FINE FISSURED™</b>			
15/16" Square Lay-in		1 <b>1713</b>	24 x 24 x 3/4"
		1 <b>1713BL</b>	24 x 24 x 3/4"
		1 <b>1810</b>	24 x 24 x 3/4"
		1 <b>1714</b>	24 x 48 x 3/4"
15/16" Angled Tegal		13 <b>1717</b>	24 x 24 x 3/4"
		13 <b>1820</b>	24 x 24 x 3/4"
		13 <b>1824</b>	24 x 48 x 3/4"
9/16" Beveled Tegal		29, 44, 48, 52, 56 <b>1719</b>	24 x 24 x 3/4"
		29, 44, 48, 52, 56 <b>1821</b>	24 x 24 x 3/4"
<b>School Zone® GEORGIAN™</b>			
15/16" Square Lay-in		1 <b>796</b>	24 x 24 x 3/4"
		1 <b>795</b>	24 x 48 x 3/4"

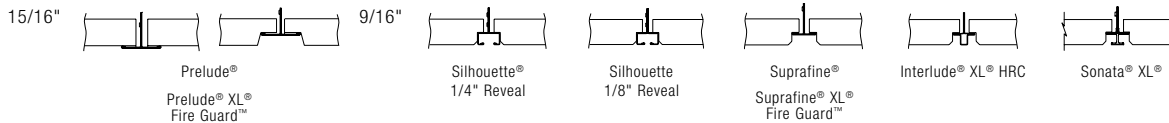
## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
UL Classified	NRC + CAC =	Class	Light Reflectance	Bio-Block	Humi-Guard+		Durability					
0.70	35	<b>BETTER</b> Class A	0.85*	•	•	•	-	-	-	•	•	•
•	•		•	•	•	•	-	-	-	•	•	•
0.70	40	<b>BETTER</b> Fire Guard™	0.85	•	•	•	-	-	-	•	•	•
•	•		•	•	•	•	-	-	-	•	•	•
0.70	40	<b>BETTER</b> Class A	0.85	•	•	•	-	-	-	•	•	•
•	•		•	•	•	•	-	-	-	•	•	•
0.70	40	<b>BETTER</b> Fire Guard	0.85	•	•	•	-	-	-	•	•	•
•	•		•	•	•	•	-	-	-	•	•	•
0.70	40	<b>BETTER</b> Class A	0.85	•	•	•	-	-	-	•	•	•
•	•		•	•	•	•	-	-	-	•	•	•
0.70	35	<b>BETTER</b> Fire Guard	0.85	•	•	•	-	-	-	•	•	•
•	•		•	•	•	•	-	-	-	•	•	•
0.70	35	<b>BETTER</b> Fire Guard	0.85	•	•	•	-	-	-	•	•	•
•	•		•	•	•	•	-	-	-	•	•	•
0.65	35	<b>BETTER</b> Class A	0.86	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•
0.65	35	<b>BETTER</b> Class A	0.86	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+) \* Light reflectance number for white only.

## SUSPENSION SYSTEMS



## PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

### ASTM E1264 Classification

Type III, Form 2, Pattern C E Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions

**GREENGUARD Gold Certified**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### Acoustical Performance

CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



### Insulation Value

School Zone® Fine Fissured™: R Factor – 1.5 (BTU units)  
 R Factor – 0.26 (Watts units)  
 School Zone® Georgian™: R Factor – 1.6 (BTU units)  
 R Factor – 0.28 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Square Feet/Carton

1824 – 1.20 lbs/SF; 64 SF/ctn  
 1717, 1719 – 1.25 lbs/SF; 48 SF/ctn  
 1713, 1810, 1820, 1821 – 1.31 lbs/SF; 48 SF/ctn  
 1714, 1811 – 1.38 lbs/SF; 64 SF/ctn  
 795 – 1.38 lbs/SF; 64 SF/ctn  
 796 – 1.31 lbs/SF; 48 SF/ctn

### Minimum Order Quantity

1 carton, excludes made-to-order panels

### Metric Items Available

Items 1810M, 1811M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
 (search: school zone)  
 BPCS-4629-718

LEED® is a registered trademark of the U.S. Green Building Council®  
 UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
 © 2018 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
 CEILING & WALL SOLUTIONS

371



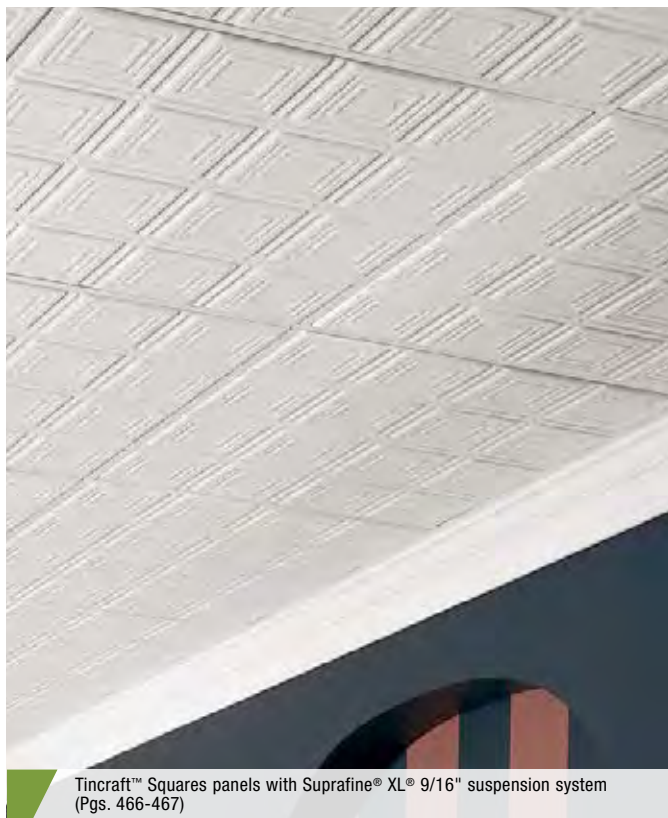
MINERAL FIBER

# TINCRAFT™

Circles, Squares & Triangles

Tegular

smooth texture



Tincraft™ Squares panels with Suprafine® XL® 9/16" suspension system (Pgs. 466-467)



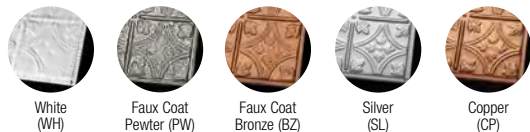
Tincraft™ Circles panels with Faux Coat Bronze and coordinated Prelude® XL® 15/16" suspension system (Pgs. 458-459)

These panels offer the look of old-world tin ceilings with low-relief panels in classic designs, an array of standard metallic colors, and sound blocking.

## KEY SELECTION ATTRIBUTES

- Early 20th century embossed metal look
  - Affordable, practical alternative to traditional tin and metal ceilings
  - Finely detailed design for upscale look
  - High sound-blocking CAC (35)
- NOTE: Not recommended for areas requiring acoustical performance

**COLORS** Due to printing limitations, shade may vary from actual product.



Color finishes available on Tincraft Circles panels only. Colored ceilings are dye-lotted and should be segregated by dye lot. Do not mix.

## FACE VIEWS (1/4 of 24 x 24" panel shown)



Circles Squares Triangles

## DETAILS (Other Suspension Systems compatible. Refer to listing on page 373.)



1. Tincraft™ Circles
2. Tincraft™ Squares
3. Tincraft™ Triangles
4. Tincraft™ Circles with Prelude® 15/16" suspension system
5. Tincraft™ Squares with Suprafine® 9/16" suspension system
6. Tincraft™ Triangles with Suprafine® 9/16" suspension system

# TINCRAFT™

Circles, Squares & Triangles  
Tegular  
smooth texture

**GREENGUARD**  
Gold Certified  
(details below)

UP TO **56%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

## VISUAL SELECTION

## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No. ◆	Dimensions (Inches)	UL Classified Acoustics	NRC + CAC	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect (White only)	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	Warranty
<b>TINCRAFT™ Circles</b>															
15/16" Flush Tegular	3	<b>8008</b> __	24 x 24 x 3/4" □	UL Classified Acoustics	N/A 35	–	Class A	0.78	–	Std	•	Std	Std	•	1-Yr
<b>TINCRAFT Squares</b>															
9/16" Flush Tegular	25	<b>8009</b>	24 x 24 x 3/4" □	UL Classified Acoustics	N/A 35	–	Class A	0.78	–	Std	•	Std	•	•	1-Yr
<b>TINCRAFT Triangles</b>															
9/16" Flush Tegular	25	<b>8010</b>	24 x 24 x 3/4" □	UL Classified Acoustics	N/A 35	–	Class A	0.78	–	Std	•	Std	•	•	1-Yr

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
◆ Add 2-letter color suffix to item number when specifying or ordering (e.g., 8008 P W).



Circles



Squares

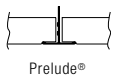


Triangles

Images represent a 12" x 12" section of panel.

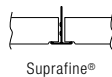
## SUSPENSION SYSTEMS

15/16"



Prelude®

9/16"



Suprafine®

For coordinating color, specify Prelude® XL® items 7301 main beam, XL7342, XL7328 cross tees, and 7800 wall molding with the appropriate 2-letter color suffix.

## PHYSICAL DATA

### Material

Wet-formed mineral fiber

### Surface Finish

Factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification

Type III, Form 2, Pattern J Z (Classic embossed tin ceiling design)  
Fire Class A

### Humidity/Sag Resistance

Standard performance ceiling panels are recommended where the building is enclosed and the HVAC is continuously functioning.

### VOC Emissions

### GREENGUARD Gold Certified

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



### Performance Guarantee & Warranty

10-year warranty when installed with Armstrong® Suspension System. 1-year warranty on ceiling panel. Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Square Feet/Carton

8008 – 0.90 lbs/SF; 48 SF/ctn  
8009, 8010 – 1.23 lbs/SF; 32 SF/ctn

### Minimum Order Quantity

1 carton

### High Recycled Content

Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

### Insulation Value

Average R Factor – 1.6 (BTU units)  
Average R Factor – 0.28 (Watts units)

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: tincraft)  
BPCS-3690-718

LEED® is a registered trademark of the U.S. Green Building Council  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

373

MINERAL FIBER

# TUNDRA®

Square Lay-in & Tegular  
medium texture



Tundra® panels with Suprafine® XL® 9/16" suspension system (Pgs. 466-467)

Tundra® durable panels have a medium-textured visual, and are impact- and scratch-resistant.

## KEY SELECTION ATTRIBUTES

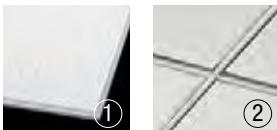
- Durable
  - Impact-resistant
  - Scratch-resistant
- 30-Year Limited System Warranty against visible sag, mold, and mildew

## COLOR



White  
(WH)

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 375.)



1. Tundra® Beveled Tegular
2. Tundra® with Suprafine® 9/16" suspension system

# TUNDRA®

## Square Lay-in & Tegular medium texture




UP TO **35%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED® energy management construction waste to mgmt regional materials design for flexibility EPD recyclable/extended producer resp. bio-based materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

LOCATION DEPENDENT

### VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
<b>TUNDRA®</b>			
15/16" Square Lay-in	1	<b>301</b>	24 x 24 x 5/8" <input type="checkbox"/>
	1	<b>302</b>	24 x 48 x 5/8" <input type="checkbox"/>
15/16" Beveled Tegular	15	<b>303</b>	24 x 24 x 5/8" <input type="checkbox"/>
	15	<b>305</b>	24 x 48 x 5/8" <input type="checkbox"/>
9/16" Beveled Tegular	29, 44, 48, 52, 56	<b>304</b>	24 x 24 x 5/8" <input type="checkbox"/>
			
<b>Size Capabilities</b>		<b>Width</b>	<b>Length</b>
15/16" Square Lay-in	<b>Made-to-Order Sizes (4-6 Wks)</b>	<b>5/8" Thick</b>	
15/16" & 9/16" Beveled Tegular		24"	24" - 48"

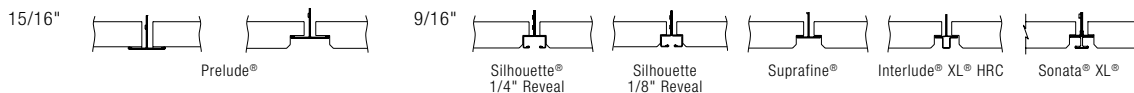
### PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Impact	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	=										
0.50	33	-	Class A	0.87	Bio-Block	Humi-Guard+				Std		
0.50	35	-	Class A	0.87						Std		
0.50	33	-	Class A	0.87						Std		
0.50	35	-	Class A	0.87						Std		
0.50	33	-	Class A	0.87						Std		
N/A	N/A	-	Class A	0.87						Std		

<sup>1</sup>Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

### SUSPENSION SYSTEMS



### PHYSICAL DATA

**Material**  
Wet-formed, high-density mineral fiber

**Surface Finish**  
Factory-applied latex paint with scuff-resistant spatter coat

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type III, Form 2, Pattern C E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Acoustical Testing**  
CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**Insulation Value**  
R Factor - 1.7 (BTU units)  
R Factor - 0.30 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
301, 302, 305 - 1.09 lbs/SF; 64 SF/ctn  
303, 304 - 1.10 lbs/SF; 48 SF/ctn

**Minimum Order Quantity**  
1 carton, excludes made-to-order panels.

**Metric Items Available**  
302M, 303M, 305M, 304M - Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

# ULTIMA® ULTIMA® High NRC

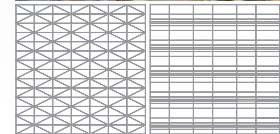
Square Lay-in  
fine texture



## DESIGNFlex™ CEILING SYSTEMS



**Personalize Your Design!**  
Mix and match different sizes, shapes, and materials to reinvent your ceiling. More at:  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



plus capabilities

to do more



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: ultima



Ultima® Square Lay-in panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

A smooth visual ceiling with Total Acoustics® performance, sound absorption, and blocking needed for today's flexible spaces.

### KEY SELECTION ATTRIBUTES



- DesignFlex™ options include shapes and made-to-order sizes available to ship in 3 weeks
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance
- Ultima® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Smooth, clean, durable finish – Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Ceiling-2-Ceiling™ Post-consumer Recycled Content options: items 1910HRC, 1913HRC. 71% Pre-consumer; 15% Post-consumer
- USDA-Certified Biobased Product – 88%
- Available with AirGuard™ coating – actively removes formaldehyde from indoor air
- Visual coordinates with Optima® panels for mixed (open/closed plan) applications
- Item 1910 available with Create!™ printed images and patterns
- Non-directional visual reduces scrap and installation time
- Compatible with TechZone® Ceiling Systems
- 30-Year Limited System Warranty against visible sag, mold, and mildew
- 10-Year replacement panel available for items 1910, 1913



### TYPICAL APPLICATIONS

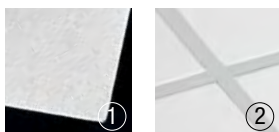
- Offices – closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- Healthcare – assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- Classrooms
- Corridors
- Lobbies/reception areas
- Department stores/retail

### COLOR



White  
(WH)

### DETAILS



1. Ultima® Square Lay-in
2. Ultima® Square Lay-in with Prelude® 15/16" suspension system



# ULTIMA® ULTIMA® High NRC

Square Lay-in  
fine texture



**GREENGUARD**  
Gold Certified  
(details below)

**Declare**  
Living Building  
Challenge Compliant



**SUSTAIN**  
High Performance  
Sustainable  
Ceiling Systems

UP TO **84%** RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- low-toxic materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)
<b>ULTIMA® High NRC</b>			
	1	<b>1940</b>	24 x 24 x 7/8"
	1	<b>1943</b>	24 x 48 x 7/8"
	1	<b>1432</b>	24 x 60 x 7/8"
	1	<b>1435</b>	24 x 72 x 7/8"
Size Capabilities		Width	Length
15/16" Square Lay-in	<b>1 CTN MIN Made-to-Order Sizes (3 Wks)</b>	<b>7/8" Thick</b>	
		4" – 5-1/2"	12" – 72"
		6" – 11-1/2"	6" – 72"
		12" – 24-1/2"	4" – 72"
		25" – 48"	4" – 30"

## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

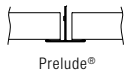
UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	NRC + CAC	AC	Fire	Light	Bio-Block	Humi-Guard+								
0.80	35	<b>BEST</b>	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
0.80	35	<b>BEST</b>	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
0.80	35	<b>BEST</b>	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
0.80	35	<b>BEST</b>	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•
N/A	N/A	–	–	Class A	0.87	•	•	•	•	•	•	•	•	•	•

**MORE ITEMS** ▶

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## SUSPENSION SYSTEMS

15/16"



Prelude®

### Blizzard White – Suspension System Finish

A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

## PHYSICAL DATA

### Material

Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane

### Surface Finish

DuraBrite scrim with factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification

Type IV, Form 2, Pattern E  
Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions

**GREENGUARD Gold Certified**

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### Acoustical Performance

CAC testing conducted using Prelude® XL® suspension system.

### Primary (Embodied) Energy

See all LCA information on our EPDs.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



### Insulation Value

R Factor – 2.2 (BTU units)  
R Factor – 0.39 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

### Weight; Square Feet/Carton

1940 – 1.14 lbs/SF; 40 SF/ctn  
1943 – 1.125 lbs/SF; 48 SF/ctn  
1432 – 1.05 lbs/SF; 60 SF/ctn  
1435 – 1.04 lbs/SF; 72 SF/ctn

### Minimum Order Quantity

1 carton

### Metric Items Available

1940M, 1943M – Metric items subject to extended lead times and minimum quantities.

# ULTIMA® ULTIMA® High NRC

Square Lay-in  
fine texture



**GREENGUARD**  
Gold Certified  
(details below)



**Declare**  
Living Building  
Challenge Compliant

**SUSTAIN**  
High Performance  
Sustainable  
Ceiling Systems

UP TO **84%** RECYCLED CONTENT

**LEED** energy management construction waste mgmt regional materials design for flexibility EPD recyclable/extended producer resp. biobased materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)
		<b>1420</b>	6 x 48 x 3/4"
		<b>1425</b>	6 x 60 x 3/4"
		<b>1990</b>	12 x 48 x 3/4"
		<b>1991</b>	12 x 60 x 3/4"
		<b>1992</b>	12 x 72 x 3/4"
		<b>1910</b> <b>1910HRC*</b>	24 x 24 x 3/4"
		<b>1913</b> <b>1913HRC*</b>	24 x 48 x 3/4"
		<b>1984</b>	24 x 60 x 3/4"
		<b>1980</b>	24 x 72 x 3/4"

Size Capabilities	Width	Length
15/16" Square Lay-in	<b>3/4" Thick</b>	
	4" - 5-1/2"	12" - 72"
	6" - 11-1/2"	6" - 72"
	12" - 30"	18" - 72"
	30-1/2" - 48"	4" - 30"

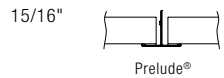
## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	NRC + CAC													
N/A	N/A	-	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.65	N/A	-	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.65	N/A	-	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.75	35	<b>BETTER</b>	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.75	35	<b>BETTER</b>	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.75	35	<b>BETTER</b>	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.75	35	<b>BETTER</b>	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## SUSPENSION SYSTEMS



**Blizzard White – Suspension System Finish**  
A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane.

**Surface Finish**  
DuraBrite scrim with factory-applied latex paint.

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type IV, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Acoustical Performance**  
CAC testing conducted using Prelude® XL® suspension system.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



**Insulation Value**  
R Factor – 2.2 (BTU units)  
R Factor – 0.39 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
1420, 1425 – 1.05 lbs/SF; 24 SF/ctn  
1910, 1913, – 1.08 lbs/SF; 48 SF/ctn  
1991 – 1.08 lbs/SF; 30 SF/ctn  
1992 – 1.08 lbs/SF; 36 SF/ctn  
1980 – 1.08 lbs/SF; 72 SF/ctn  
1984 – 1.08 lbs/SF; 80 SF/ctn  
1990 – 1.08 lbs/SF; 24 SF/ctn

**Minimum Order Quantity**  
1 carton

**Metric Items Available**  
1910M, 1913M, – Metric items subject to extended lead times and minimum quantities.



# ULTIMA® ULTIMA® High NRC

Square Lay-in  
fine texture



**GREENGUARD**  
Gold Certified  
(details below)

**Declare**™  
Living Building  
Challenge Compliant



**SUSTAIN**™  
High Performance  
Sustainable  
Ceiling Systems

UP TO **84%** RECYCLED CONTENT

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

## PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

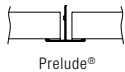
Edge Profile	Susp. Dwg. Pgs. 474-478	Item No. armstrongceilings.com/catdwgs	Dimensions (Inches)	UL Classified Acoustics		Total Acoustics <sup>1</sup> NRC + CAC =	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
				NRC	CAC														
<b>ULTIMA® with AirGuard™ Coating</b> Actively removes formaldehyde from indoor air.																			
15/16" Square Lay-in	1	<b>1900</b>	24 x 24 x 3/4"	0.75	35	<b>BETTER</b>	—	Class A	0.90	•	•	•	•	•	•	•	•	•	•
	1	<b>1903</b>	24 x 48 x 3/4"	0.75	35	<b>BETTER</b>	—	Class A	0.90	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## SUSPENSION SYSTEMS

### Blizzard White – Suspension System Finish

15/16"



Prelude®

A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

## PHYSICAL DATA

### Material

Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane

### Surface Finish

DuraBrite scrim with factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

### ASTM E1264 Classification

Type IV, Form 2, Pattern E  
Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions GREENGUARD Gold Certified

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### Acoustical Performance

CAC testing conducted using Prelude® XL® suspension system.

### Primary (Embodied) Energy

See all LCA information on our EPDs.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

### Insulation Value

R Factor – 2.2 (BTU units)  
R Factor – 0.39 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight; Square Feet/Carton

1900, 1903, – 1.08 lbs/SF; 48 SF/ctn

### Minimum Order Quantity

1 carton

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: ultima)  
BPCS-4595-119

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of The International Living Future Institute  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America

**Armstrong**®  
CEILING & WALL SOLUTIONS

379

MINERAL FIBER



# ULTIMA® ULTIMA® High NRC

Tegular  
fine texture



**TOTAL ACOUSTICS®**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)



**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems



**DESIGNFlex™**  
A New World of Choice  
for Ceiling Systems

## DESIGNFlex™ CEILING SYSTEMS

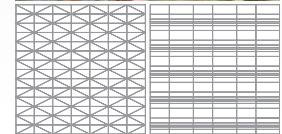


See Ultima® Shapes Page 148-151

### Personalize Your Design!

Mix and match different sizes, shapes, and materials to reinvent your ceiling. More at:

[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



plus capabilities  
to do more



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: ultima



Ultima® Beveled Tegular panels with Sonata® 9/16" suspension system (Pg. 466)

A smooth visual ceiling with Total Acoustics® performance, sound absorption, and blocking needed for today's flexible spaces.

### KEY SELECTION ATTRIBUTES

- new** DesignFlex™ options include shapes and made-to-order sizes available to ship in 3 weeks
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance
- Ultima® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Smooth, clean, durable finish – Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Excellent sound absorption
- Ceiling-2-Ceiling™ Post-consumer Recycled Content options: items 1911HRC, 1912HRC, 1914HRC, 1915HRC. 71% Pre-consumer; 15% Post-consumer
- USDA-Certified Biobased Product – 88%
- Available with AirGuard™ coating
- Item 1912 available with Create!™ printed images and patterns
- Non-directional visual reduces scrap and installation time
- Compatible with the TechZone® Ceiling Systems
- 30-Year Limited System Warranty against visible sag (excludes items 1905 and 1929), mold, and mildew
- 10-Year replacement panel available for items 1911, 1912, 1914, 1915



### TYPICAL APPLICATIONS

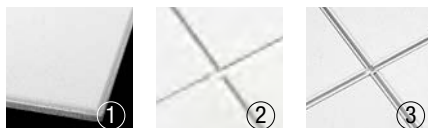
- Offices – closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- Healthcare – assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- Classrooms
- Corridors
- Lobbies/reception areas
- Department stores/retail

### COLOR



White  
(WH)

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 381.)



1. Ultima® Beveled Tegular
2. Ultima® with Suprafine® 9/16" suspension system
3. Ultima® with Silhouette® XL® 9/16" suspension system with 1/4" reveal

# ULTIMA® ULTIMA® High NRC

Tegular  
fine texture

Now in  
Shapes!



GREENGUARD  
Gold Certified  
(details below)

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant



SUSTAIN<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO 84% RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LEED<sup>®</sup> **UP TO 84% RECYCLED CONTENT**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)
<b>ULTIMA® High NRC</b>			
15/16" Beveled Tegular	15	<b>1941</b>	24 x 24 x 7/8" □
	15	<b>1944</b>	24 x 48 x 7/8" □
	15	<b>1433</b>	24 x 60 x 7/8" □
	15	<b>1436</b>	24 x 72 x 7/8" □
9/16" Beveled Tegular	29, 44, 48, 52, 56	<b>1942</b>	24 x 24 x 7/8" □
	29, 44, 48, 52, 56	<b>1942HRC</b>	24 x 24 x 3/4" □
	29, 44, 48, 52, 56	<b>1945</b>	24 x 48 x 7/8" □
	29, 44, 48, 52, 56	<b>1431</b>	30 x 30 x 7/8" □
	29, 44, 48, 52, 56	<b>1434</b>	24 x 60 x 7/8" □
	29, 44, 48, 52, 56	<b>1437</b>	24 x 72 x 7/8" □

## Size Capabilities

	Width	Length
15/16" & 9/16" Beveled Tegular	<b>7/8" Thick</b>	
<b>1 CTN MIN Made-to-Order Sizes (3 Wks)</b>	4" – 5-1/2"	12" – 72"
	6" – 11-1/2"	6" – 72"
	12" – 24-1/2"	4" – 72"
	25" – 48"	4" – 30"

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## PERFORMANCE SELECTION

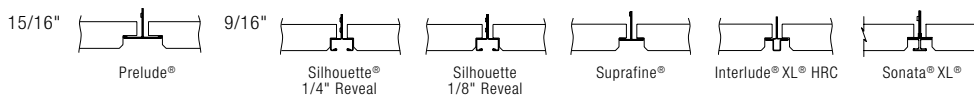
Dots represent high level of performance.

\$\$\$

UL Classified Acoustics	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC + CAC =	NRC + CAC	AC	Fire	Light	Bio-Block	Humi-Guard+								
0.80 • 35 •	<b>BEST</b>	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	<b>BEST</b>	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	<b>BEST</b>	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	<b>BEST</b>	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	<b>BEST</b>	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	<b>BEST</b>	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	<b>BEST</b>	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	<b>BEST</b>	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	<b>BEST</b>	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	<b>BEST</b>	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
N/A	N/A	–	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•

**MORE ITEMS ▶**

## SUSPENSION SYSTEMS



## Blizzard White – Suspension System Finish

A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

## PHYSICAL DATA

### Material

Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane

### Surface Finish

DuraBrite scrim with factory-applied latex paint

### Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

### ASTM E1264 Classification

Type IV, Form 2, Pattern E  
Fire Class A

### Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### VOC Emissions GREENGUARD Gold Certified

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### Acoustical Performance

CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

### Primary (Embodied) Energy

See all LCA information on our EPDs.

### High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



### Insulation Value

R Factor – 2.2 (BTU units)  
R Factor – 0.39 (Watts units)

### 30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

### Weight; Square Feet/Carton

1945 – 1.14 lbs/SF; 48 SF/ctn 1436 – 1.04 lbs/SF; 72 SF/ctn  
1941, 1942 – 1.125 lbs/SF; 40 SF/ctn 1431 – 1.06 lbs/SF; 62.5 SF/ctn  
1944 – 1.125 lbs/SF; 48 SF/ctn 1434 – 1.05 lbs/SF; 60 SF/ctn  
1433 – 1.05 lbs/SF; 60 SF/ctn 1437 – 1.04 lbs/SF; 72 SF/ctn

### Minimum Order Quantity

1 carton

### Metric Items Available

1941M, 1944M, 1945M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine 877 276-7876  
armstrongceilings.com/commercial

**Armstrong®**  
CEILING & WALL SOLUTIONS

381

MINERAL FIBER

# ULTIMA® ULTIMA® High NRC

Tegular  
fine texture

Now in  
Shapes!



GREENGUARD  
Gold Certified  
(details below)



Declare™  
Living Building  
Challenge Compliant

SUSTAIN®  
High Performance  
Sustainable  
Ceiling Systems

UP TO **84%** RECYCLED CONTENT

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at  
armstrongceilings.com/greengene

LOCATION DEPENDENT

## VISUAL SELECTION

## PERFORMANCE SELECTION

Dots represent high level of performance.



Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)	UL Classified Acoustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty	
				NRC	CAC														
<b>ULTIMA®</b>																			
15/16" Beveled Tegular	15	<b>1422</b>	6 x 48 x 3/4"	N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•	
		<b>1917</b>	12 x 24 x 3/4"	N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•	
		<b>1993</b>	12 x 48 x 3/4"	0.65	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•	
		<b>1994</b>	12 x 60 x 3/4"	0.65	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•	
		<b>1995</b>	12 x 72 x 3/4"	0.65	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•	
		<b>1911</b> <b>1911HRC</b>	24 x 24 x 3/4"	0.75	35	<b>BETTER</b>	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•
		<b>1951</b>	24 x 24 x 3/4"	0.60	40	<b>GOOD</b>	Class A	0.90	•	•	•	•	•	•	•	•	•	•	
		<b>1894</b>	24 x 24 x 3/4"	0.60	40	<b>GOOD</b>	Fire Guard™	0.90	•	•	•	•	•	•	•	•	•	•	
		<b>1914</b> <b>1914HRC</b>	24 x 48 x 3/4"	0.75	35	<b>BETTER</b>	Class A	0.90	•	•	•	•	•	•	•	•	•	•	
		<b>1985</b>	24 x 60 x 3/4"	0.75	35	<b>BETTER</b>	Class A	0.90	•	•	•	•	•	•	•	•	•	•	
<b>1981</b>	24 x 72 x 3/4"	0.75	35	<b>BETTER</b>	Class A	0.90	•	•	•	•	•	•	•	•	•	•			
9/16" Beveled Tegular	29, 44, 48, 52, 56	<b>1423</b>	6 x 48 x 3/4"	N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•	
		<b>1427</b>	6 x 60 x 3/4"	N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•		
		<b>1916</b>	12 x 24 x 3/4"	N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•		
		<b>1996</b>	12 x 48 x 3/4"	0.65	N/A	<b>GOOD</b>	Class A	0.90	•	•	•	•	•	•	•	•	•		
		<b>1997</b>	12 x 60 x 3/4"	0.65	N/A	<b>GOOD</b>	Class A	0.90	•	•	•	•	•	•	•	•	•		
		<b>1998</b>	12 x 72 x 3/4"	0.65	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•		
		<b>1912</b> <b>1912HRC</b>	24 x 24 x 3/4"	0.75	35	<b>BETTER</b>	Class A	0.90	•	•	•	•	•	•	•	•	•		
		<b>1952</b>	24 x 24 x 3/4"	0.60	40	<b>GOOD</b>	Class A	0.90	•	•	•	•	•	•	•	•	•		
		<b>1895</b>	24 x 24 x 3/4"	0.60	40	<b>GOOD</b>	Fire Guard	0.90	•	•	•	•	•	•	•	•	•		

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)



MINERAL FIBER

# ULTIMA® ULTIMA® High NRC

Now in  
Shapes!

Tegular  
fine texture



**GREENGUARD**  
Gold Certified  
(details below)

**Declare**<sup>SM</sup>  
Living Building  
Challenge Compliant



**SUSTAIN**<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO **84%** RECYCLED CONTENT

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at  
armstrongceilings.com/greengenie

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)
		<b>1915</b> <b>1915HRC</b>	24 x 48 x 3/4"
		<b>1986</b>	24 x 60 x 3/4"
		<b>1982</b>	24 x 72 x 3/4"
		<b>1905</b> <b>1905HRC</b>	30 x 30 x 3/4"
		<b>1929</b> <b>1929HRC</b>	30 x 54 x 3/4"
		<b>1905</b> <b>1905HRC</b>	30 x 30 x 3/4"

Size Capabilities	Width	Length
15/16" & 9/16" Beveled Tegular	<b>1 CTN MIN</b> Made-to-Order Sizes (3 Wks)	3/4" Thick
	4" - 5-1/2"	12" - 72"
	6" - 11-1/2"	6" - 72"
	12" - 30"	18" - 72"
	30-1/2" - 48"	4" - 30"

**ULTIMA® with AirGuard™ Coating** Actively removes formaldehyde from indoor air.

15/16" Beveled Tegular	15	<b>1901</b>	24 x 24 x 3/4"
	15	<b>1904</b>	24 x 48 x 3/4"
9/16" Beveled Tegular	29, 44, 48, 52, 56	<b>1902</b>	24 x 24 x 3/4"
	29, 44, 48, 52, 56	<b>1906</b>	24 x 48 x 3/4"

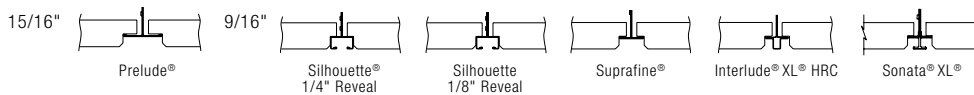
<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	+ CAC	NRC + CAC	Class	Light Reflect	Bio-Block	Humi-Guard+	VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
0.75	35	<b>BETTER</b>	Class A	0.90	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•
0.75	35	<b>BETTER</b>	Class A	0.90	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•
0.75	35	<b>BETTER</b>	Class A	0.90	•	•	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•
0.75	35	<b>BETTER</b>	Class A	0.90	•	Std	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•
0.75	35	<b>BETTER</b>	Class A	0.90	•	Std	•	•	•	•	•	•	•	•
•	•		•	•	•	•	•	•	•	•	•	•	•	•
N/A	N/A	–	Class A	0.90	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

## SUSPENSION SYSTEMS



### Blizzard White – Suspension System Finish

A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane

**Surface Finish**  
DuraBrite with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).  
Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

**ASTM E1264 Classification**  
Type IV, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. (Excludes items 1905 and 1929).

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010.  
This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Acoustical Performance**  
CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

**Insulation Value**  
R Factor – 2.2 (BTU units) R Factor – 0.39 (Watts units)

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of The International Living Future Institute  
UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818



**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Weight: Square Feet/Carton**  
1917, 1993 – 1.05 lbs/SF; 24 SF/ctn  
1422 – 1.08 lbs/SF; 24 SF/ctn  
1905 – 1.05 lbs/SF; 62.5 SF/ctn  
1911, 1912, 1914, 1915 – 1.05 lbs/SF; 48 SF/ctn  
1916, 1996 – 1.05 lbs/SF; 24 SF/ctn  
1423 – 1.08 lbs/SF; 24 SF/ctn  
1427 – 1.07 lbs/SF; 24 SF/ctn  
1929 – 1.02 lbs/SF; 68 SF/ctn  
1895, 1952, 1951 – 1.31 lbs/SF; 48 SF/ctn  
1901, 1902, 1904, 1906 – 1.08 lbs/SF; 48 SF/ctn  
1997, 1994 – 1.05 lbs/SF; 30 SF/ctn  
1998, 1995 – 1.05 lbs/SF; 36 SF/ctn  
1981, 1982 – 1.08 lbs/SF; 72 SF/ctn  
1894, 1985, 1986 – 1.08 lbs/SF; 80 SF/ctn

**Minimum Order Quantity**  
1 carton

**Metric Items Available**  
1905M, 1912M, 1912MHRC, 1914M, 1915M, 1916M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276 7876  
armstrongceilings.com/commercial  
(search: ultima)  
BPCS-3039-119

**Armstrong**<sup>®</sup>  
CEILING & WALL SOLUTIONS

383



MINERAL FIBER

**ULTIMA®**  
Vector®  
fine texture



**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems



**DESIGNFlex™**  
A New World of Choice  
for Ceiling Systems

**DESIGNFlex™**  
CEILING SYSTEMS



Ultima® Vector® panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

**Personalize Your Design!**  
Mix and match different sizes and materials to reinvent your ceiling. More at:  
[armstrongceilings.com/designflex](http://armstrongceilings.com/designflex)



See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)  
SEARCH: ultima

Ultima® Vector® panels are great for projects where plenum space is limited and a sleek, modern visual is desired.

**KEY SELECTION ATTRIBUTES**

- new** • DesignFlex™ options include made-to-order sizes available to ship in 3 weeks
- Smooth, clean, durable finish – Washable, Scratch-resistant, Soil-resistant
- Ultima® Vector® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- 1/4" reveal resulting in a monolithic appearance (Vector)
- new** • Vector Trim Kit in Blizzard White finish for easy installation and bright visual
- Downward accessible for minimal plenum height (Vector)
- USDA Certified Biobased Product – 88%
- Visual coordinates with Optima® for mixed (open/closed plan) applications
- Item 1920 available with Create!™ printed images and patterns, see pages 302-304
- 30-Year Limited System Warranty against visible sag, mold, and mildew
- 10-Year replacement panel available for item 1920

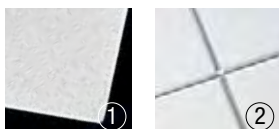


**COLOR**



White  
(WH)

**DETAILS**



1. Ultima® Vector®
2. Ultima® Vector® with Prelude® 15/16" suspension system



# ULTIMA®

## Vector®

fine texture

**GREENGUARD**  
Gold Certified  
(details below)



**Declare**<sup>SM</sup>  
Living Building  
Challenge Compliant

**SUSTAIN**<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO **76%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

### VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/catdwgs">armstrongceilings.com/catdwgs</a>	Item No.	Dimensions (Inches)
1/4" Reveal 	74	<b>1921</b>	12 x 24 x 3/4" □
	74	<b>1920</b>	24 x 24 x 3/4" □

### Size Capabilities

**1 CTN MIN**  
Made-to-Order Sizes (3 Wks)

Width	Length
<b>3/4" Thick</b>	
4" - 5-1/2"	12" - 24"
6" - 11-1/2"	6" - 24"
12" - 24"	4" - 48"

### PERFORMANCE SELECTION

Dots represent high level of performance.

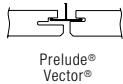
\$\$\$

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC												
N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•
0.70	33	-	Class A	0.90	•	•	•	•	•	•	•	•	•
N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

### SUSPENSION SYSTEMS

15/16"



### VECTOR TRIM KITS

Item No.	Length	Color	Substrate	Pcs/Ctn
<b>VETK4ZW</b>	4"	Blizzard White	Steel	24
<b>VETK6ZW</b>	6"	Blizzard White	Steel	24
<b>VETK24ZW</b>	24"	Blizzard White	Steel	24
<b>VETK48ZW</b>	48"	Blizzard White	Steel	24
<b>VETK96ZW</b>	96"	Blizzard White	Steel	24

**Made-to-Order Sizes & Colors (4-6 Wks)**

**Length:** 4" - 96"

### ACCESSORIES (must be ordered separately)

Item No.		Pcs/Ctn
<b>440A</b>	Vector Border Clip (For all installations)	50
<b>442A</b>	Vector Hold Down Clip (For all installations)	50
<b>7425</b>	24" Stabilizer Bar	100
<b>7445</b>	48" Stabilizer Bar	100
<b>7870</b>	Spring Border Clip (For installations with the panel resting on the wall molding)	1,000

### PHYSICAL DATA

**Material**  
Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane.

**Surface Finish**  
DuraBrite with factory-applied latex paint.

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type IV, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
[UL.COM/GG](http://UL.COM/GG)  
UL 2818



**Acoustical Performance**  
CAC testing conducted using Prelude® XL® suspension system.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
R Factor - 2.2 (BTU units)  
R Factor - 0.39 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet/Carton**  
1920 - 1.08 lbs/SF; 48 SF/ctn  
1921 - 1.08 lbs/SF; 24 SF/ctn

**Minimum Order Quantity**  
1 carton, excludes FastSize™ sizes

MINERAL FIBER

ULTIMA® Health Zone™  
ULTIMA® Health Zone™ High NRC

Square Lay-in  
fine texture



Ultima® Health Zone™ Square Lay-in panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

Smooth-textured Ultima® Health Zone™ panels meet USDA/FSIS guidelines for use in food preparation areas, kitchens, and Clean Room assemblies, is water-repellent, and provides excellent sound absorption and blocking, addressing HIPAA requirements.

**KEY SELECTION ATTRIBUTES**

- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance
- Ultima® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Clean Rooms up to ISO Class 5 (Class 100) (items 1935 & 1938)
- Exceeds FGI Guidelines for acoustics and cleanability in general healthcare spaces
- Meets USDA/FSIS guidelines for use in food processing areas
- Long-lasting water-repellency; Washable and Scrubbable
- USDA Certified Biobased Product – 88%
- Smooth, clean, durable finish – Impact-, Scratch-, and Soil-resistant; safe for use with disinfectants
- Excellent sound absorption
- 30-Year Limited System Warranty against visible sag, mold and mildew, and bacterial growth

**TYPICAL APPLICATIONS**

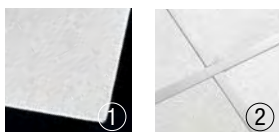
- Clean Rooms (item 1935)  
Healthcare
- Patient rooms
  - Treatment rooms
  - Nurses' stations
  - Emergency rooms
  - Corridors
  - Lavatories and restrooms
  - Kitchen/food prep areas

**COLOR**



White  
(WH)

**DETAILS**



1. Ultima® Health Zone™ Square Lay-in
2. Ultima® Health Zone™ High NRC Square Lay-in panels with Clean Room™ 15/16" suspension system

# ULTIMA® Health Zone™ ULTIMA® Health Zone™ High NRC

Square Lay-in  
fine texture

**GREENGUARD**  
Gold Certified  
(details below)



**Declare**  
Living Building  
Challenge Compliant

**SUSTAIN**  
High Performance  
Sustainable  
Ceiling Systems

UP TO **76%** RECYCLED CONTENT

**LEED** energy management construction waste mgmt regional materials design for flexibility EPD

Calculate LEED contribution at  
armstrongceilings.com/greengenie

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)
--------------	--	----------	---------------------

### ULTIMA® Health Zone™ High NRC

15/16" Square Lay-in	1, 6	<b>1445</b>	24 x 24 x 7/8"
	1, 6	<b>1448*</b>	24 x 48 x 7/8"

### ULTIMA Health Zone

15/16" Square Lay-in	1, 6	<b>1935</b>	24 x 24 x 3/4"
	1, 6	<b>1938*</b>	24 x 48 x 3/4"

### Size Capabilities

	Width	Length
15/16" Square Lay-in	<b>1 CTN MIN</b> <b>Made-to-Order Sizes (3 Wks)</b>	<b>3/4" or 7/8" Thick</b>
	4" – 5-1/2"	12" – 72"
	6" – 11-1/2"	6" – 72"
	12" – 24-1/2"	4" – 72"
	25" – 48"	4" – 30"

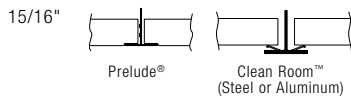
<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)  
 \* Item does not have painted edges

## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash	Scrub	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty		
NRC	+ CAC	= NRC + CAC	Class	0.86	Bio-Block	Humi-Guard+		Durability										
0.80	35	<b>BEST</b>	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•		
0.80	35	<b>BEST</b>	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•		
0.70	38	<b>BETTER</b>	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•		
0.70	38	<b>BETTER</b>	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•		
N/A	N/A	–	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•	•		

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber with DuraBrite® acoustically transparent water-repellent membrane

**Surface Finish**  
DuraBrite with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type IV, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew & Bacterial Protection**  
Health Zone™ ceiling panels with BioBlock® Plus performance resist the growth of mold and mildew, and resist odor- and stain-causing bacterial growth.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/66  
UL 2818



**Acoustical Performance**  
CAC testing conducted using Prelude® XL® suspension system.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
R Factor – 2.2 (BTU units)  
R Factor – 0.39 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Cleaning Recommendations**  
To clean panel, use a clean, white cloth with water or a mild detergent, and wipe surface. To disinfect panel, lightly spray surface and wipe clean with a clean, white cloth. Acceptable colorless disinfectants include:  
 • Sodium hypochlorite • Hydrogen peroxide  
 • Quaternary ammonium

**Weight; Square Feet/Carton**  
1935, 1938 – 1.08 lbs/SF; 48 SF/ctn  
1448, 1445 – 1.0 lbs/SF; 40 SF/ctn

**Minimum Order Quantity**  
1 carton

TechLine / 1 877 276 7876  
armstrongceilings.com/commercial  
(search: ultima)

BPCS-4066-1018

LEED® is a registered trademark of the U.S. Green Building Council  
 Declare™ is a service mark of The International Living Future Institute  
 UL is a registered trademark of UL LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
 © 2018 AWI Licensing LLC Printed in the United States of America

**Armstrong**  
CEILING & WALL SOLUTIONS

387

MINERAL FIBER



ULTIMA® Health Zone™  
ULTIMA® Health Zone™ High NRC

Tegular  
fine texture



Ultima® Health Zone™ Tegular panels with Prelude® ML 15/16" suspension system (Pg. 455)

Smooth-textured Ultima® Health Zone™ meets USDA/FSIS guidelines for use in food preparation areas, kitchens and Clean Room assemblies, is water-repellent, and provides excellent sound absorption and blocking, addressing HIPAA requirements.

**KEY SELECTION ATTRIBUTES**

- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance
- Ultima® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Clean Rooms up to ISO Class 5 (Class 100) (items 1935 & 1937)
- Exceeds FGI Guidelines for acoustics and cleanability in general healthcare spaces
- Meets USDA/FSIS guidelines for use in food processing areas
- Long-lasting water-repellency; Washable and Scrubbable
- USDA Certified Biobased Product – 88%
- Smooth, clean, durable finish – Impact-, Scratch-, and Soil-resistant; safe for use with disinfectants
- Excellent sound absorption
- 30-Year Limited System Warranty against visible sag, mold/mildew, and bacterial growth

**TYPICAL APPLICATIONS**

- Clean Rooms (item 1937)  
Healthcare:
- Patient rooms
  - Treatment rooms
  - Nurses' stations
  - Emergency rooms
  - Corridors
  - Lavatories and restrooms
  - Kitchen/food prep areas

**COLOR**



White  
(WH)

**DETAILS** (Other Suspension Systems compatible. Refer to listing on page 389.)



1. Ultima® Health Zone™ High NRC panel with panel Suprafine® 9/16" suspension system
2. Ultima® Health Zone™ High NRC Square Tegular panel with Prelude® XL® 15/16" suspension system
3. Ultima® Health Zone™ High NRC Square Tegular with Interlude® XL® HRC 9/16" suspension system

# ULTIMA® Health Zone™ ULTIMA® Health Zone™ High NRC

Tegular  
fine texture

**GREENGUARD**  
Gold Certified  
(details below)



**Declare**  
Living Building  
Challenge Compliant

**SUSTAIN**  
High Performance  
Sustainable  
Ceiling Systems

UP TO **76%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

## VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 <a href="http://armstrongceilings.com/cat/dwgs">armstrongceilings.com/cat/dwgs</a>	Item No.	Dimensions (Inches)
--------------	---	----------	---------------------

### ULTIMA® Health Zone™ High NRC

15/16" Beveled Tegular	15, 16	<b>1447</b>	24 x 24 x 7/8"	<input type="checkbox"/>
------------------------	--------	-------------	----------------	--------------------------

9/16" Beveled Tegular	29, 44, 48, 52, 56	<b>1446</b>	24 x 24 x 7/8"	<input type="checkbox"/>
-----------------------	--------------------	-------------	----------------	--------------------------

### ULTIMA Health Zone

15/16" Beveled Tegular	15, 16	<b>1937</b>	24 x 24 x 3/4"	<input type="checkbox"/>
------------------------	--------	-------------	----------------	--------------------------

9/16" Beveled Tegular	29, 44, 48, 52, 56	<b>1936</b>	24 x 24 x 3/4"	<input type="checkbox"/>
-----------------------	--------------------	-------------	----------------	--------------------------

Size Capabilities	Width	Length
9/16" & 15/16" Beveled Tegular	<b>1 CTN MIN</b> <b>Made-to-Order Sizes (3 Wks)</b>	<b>3/4" or 7/8" Thick</b>
	4" - 5-1/2"	12" - 72"
	6" - 11-1/2"	6" - 72"
	12" - 24-1/2"	4" - 72"
	25" - 48"	4" - 30"

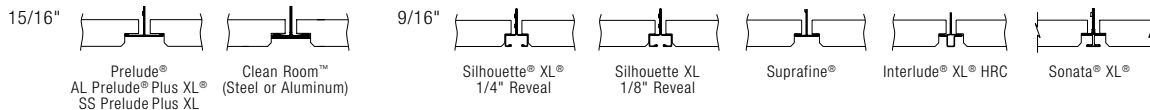
## PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics	Total Acoustics <sup>1</sup>	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash	Scrub	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC + CAC =	NRC + CAC	Class	0.86	Bio-Block	Humi-Guard+										
0.80 + 35 =	BEST	Class A	0.86												
0.70 + 38 =	BETTER	Class A	0.86												
0.70 + 35 =	BETTER	Class A	0.86												
N/A + N/A =	-	Class A	0.86												

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
GOOD (NRC 0.60-0.65; CAC 35+) BETTER (NRC 0.70-0.75; CAC 35+) BEST (NRC 0.80+; CAC 35+)

## SUSPENSION SYSTEMS



## PHYSICAL DATA

**Material**  
Wet-formed mineral fiber with DuraBrite® acoustically transparent water-repellent membrane

**Surface Finish**  
DuraBrite with factory-applied latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Type IV, Form 2, Pattern E  
Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew & Bacterial Protection**  
Health Zone ceiling panels with BioBlock® Plus performance resist the growth of mold and mildew, and resist odor- and stain-causing bacterial growth.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Acoustical Performance**  
CAC testing conducted using Prelude® XL® suspension system for 15/16" edge profile and Silhouette® XL® 9/16" profile.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**High Recycled Content**  
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of the International Living Future Institute  
All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2018 AWI Licensing LLC  
Printed in the United States of America



**Insulation Value**  
R Factor - 2.2 (BTU units)  
R Factor - 0.39 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at [armstrongceilings.com](http://armstrongceilings.com)

**Cleaning Recommendations**  
To clean panel, use a clean, white cloth with water or a mild detergent, and wipe surface. To disinfect panel, lightly spray surface and wipe clean with a clean, white cloth. Acceptable colorless disinfectants include:  
• Sodium hypochlorite • Hydrogen peroxide  
• Quaternary ammonium

**Weight: Square Feet/Carton**  
1936, 1937 - 1.08 lbs/SF; 48 SF/ctn  
1447, 1446 - 1.0 lbs/SF; 40 SF/ctn

**Minimum Order Quantity**  
1 carton

TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: ultima)  
BPCS-5147-1018

**Armstrong**  
CEILING & WALL SOLUTIONS

389



MINERAL FIBER

Watch the Total Acoustics® video series with Julian Treasure at: [armstrongceilings.com/totalacoustics](http://armstrongceilings.com/totalacoustics)



**TOTAL ACOUSTICS®**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)

## NRC + CAC = Total Acoustics

Total Acoustics® ceilings have an ideal combination of noise reduction and sound-blocking performance in one panel with a minimum NRC of 0.60 and CAC of 35. Now, whether you're creating a space for quiet concentration, collaboration, or confidentiality, one panel meets the needs for today's flexible spaces.

Tectum® Tegular 1" ceiling panels can provide improved sound absorption and sound blocking with the addition of mineral fiber infill panels.

Acoustical absorption is important to:

- Reduce noise levels and reverberation time, as well as enhance speech intelligibility

A continuous Tectum® 1" thick Tegular ceiling with an acoustical infill panel provides sounds absorption (NRC 0.90, reducing reverberation by 88%, see example below).

Tectum® Tegular ceiling panels installed with an acoustical infill panel achieve Total Acoustics® Performance.

Look for the Total Acoustics® icon on product pages that are part of this portfolio.

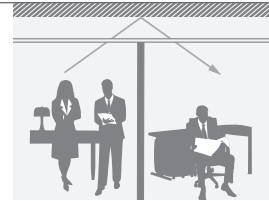
### NRC (Noise Reduction Coefficient)

A measure for rating the overall sound absorption of a material when used in an enclosed architectural space such as an office, where sound is reflected at many angles of incidence. A ceiling system with an NRC < 0.50 is considered low performance, whereas one with NRC > 0.70 is considered high performance.



### CAC (Ceiling Attenuation Class)

A measure for rating the performance of a ceiling system as a barrier to airborne sound transmission through a common plenum between adjacent closed spaces such as offices. A ceiling system with a CAC < 25 is considered low performance, whereas one with CAC ≥ 35 is considered high performance. CAC is important between closed spaces, and from closed rooms to adjacent spaces, such as corridors and open office spaces.

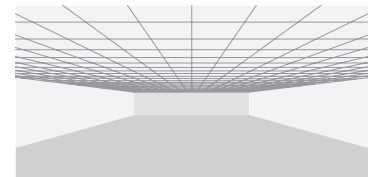


#### Example:

#### Exposed Structure



#### Continuous Ceiling



5,000 SF Exposed Structure (50' x 100'), 15' to deck, drywall with windows on two sides, commercial carpet

	No Treatment (0% Coverage)	Continuous Tectum Tegular ceiling panels and 1713 acoustical infill panel
<b>Ceiling</b>	Exposed Structure	Suspended 60" Below Deck
<b>NRC</b>	0.00	0.90
<b>CAC</b>	0 sec	35
<b>Total Acoustics®</b>	—	<b>BEST</b>
<b>Reverberation Time</b>	3.4 sec	0.4 sec
<b>RT Improvement</b>	ref	88%
<b>SPL Reduction</b>	ref	-5.6 dB

For definitions of acoustical terms, see Pgs. 546-547 in this catalog.

TECTUM® WOOD FIBER – CEMENTITIOUS

TECTUM

# TECTUM® WOOD FIBER – CEMENTITIOUS CEILINGS

## At-a-Glance

you inspire™  
solutions center

helping to bring your one-of-a-kind ideas to life

### CEILINGS



Tectum® Lay-In Panels Pgs. 394-395



Tectum® Tegular Panels Pgs. 396-397



### OTHER TECTUM® WOOD FIBER – CEMENTITIOUS PRODUCTS IN THIS CATALOG

#### BLADES™ & BAFFLES



Tectum® Baffles Pg. 81  
Featured in Blades™ & Baffles Section



#### CLOUDS



Tectum® Shapes & Clouds Pg. 114  
Featured in Clouds & Canopies Section



#### CEILINGS & WALLS – DIRECT-TO-DECK



Tectum® Direct-Attach Pgs. 124-125,  
Ceiling & Wall Panels 512-513

Featured in Direct-to-Deck  
Ceiling Section & Walls Section



Tectum® Finalé™ Pgs. 126, 514  
Ceiling & Wall Panels

Featured in Direct-to-Deck  
Ceiling Section & Walls Section



Tectum® Panel Art Pgs. 127, 516

Featured in Direct-to-Deck  
Ceiling Section & Walls Section



Tectum® Fabric Walls Pg. 515  
Featured in Walls Section



#### ICON KEY

Icons are used throughout the catalog to help you quickly identify key products with high level of performance.

#### High Acoustics

##### Total Acoustics™ ( )))

**NRC + CAC** Perforated product has both NRC of 0.70 or greater AND CAC of 35 or higher when used with acoustic infill panels.

**NRC** Product has NRC (Noise Reduction Coefficient) 0.70 or greater.

**WiFi** Sabin measures are noted under canopies and clouds products

#### Fire Performance

Class A

#### Seismic

**DEF** Category D, E & F

#### BioBlock®

**BioBlock** Resists the growth of mold and mildew

#### Humidity/Sag Resistance

##### HumiGuard® Plus

**HumiGuard** Recommended for areas subject to high humidity up to but not including standing water or outdoor applications.

#### High Durability

##### Scratch Resistance

**Scratch** Excellent resistance to surface scratching, scuffing or chipping as per Hess Rake Test.

#### Impact Resistance

**Impact** Excellent resistance to surface impact as per Falling Ball Test.

#### Color Availability

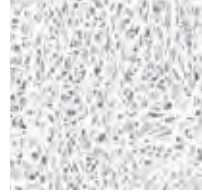
**Color** Available in color.

#### Sustainability

**Sustainability** Product is part of Sustain® Portfolio and meets the most stringent sustainability compliance standards today – 1" panels in White and Natural only.



# TECTUM® WOOD FIBER – CEMENTITIOUS CEILINGS



## WHAT IS CEMENTITIOUS WOOD FIBER?

The wood fibers used in Tectum® panels come from Wisconsin aspen trees. The Wisconsin aspen is self-propagating. When cut, a new tree grows from its root structure. All Tectum cementitious Wood Fiber products come from a single source that is Forest Stewardship Council certified.

The wood is kiln-dried and then mixed to form the primary binder. The secondary binder is composed of sand or sodium silicate and calcium carbonate (limestone).

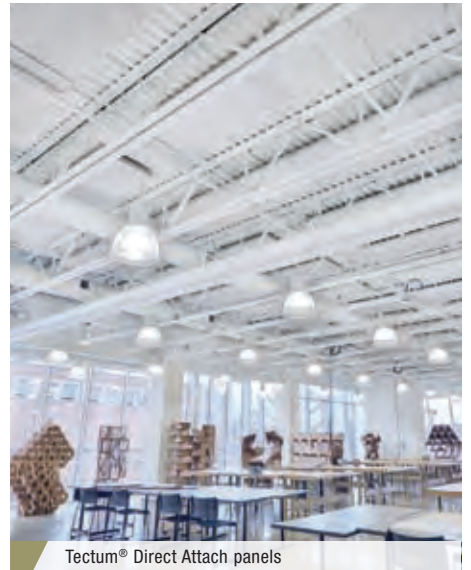
Tectum® panels are simple products that are incredibly durable. Tectum® ceiling and wall panels provide durable, sustainable, acoustical solutions with unlimited design options. Tectum 1" thick panels are part of the Sustain® portfolio and meet the most stringent sustainability standards today.



Our Tectum® product portfolio is available in a variety of sizes, shapes, forms, and colors. Select from Natural, White, or custom colors. Panels can be field-painted up to six times without impacting acoustic or fire performance. They are made to fit a variety of design needs.



Tectum® custom panels



Tectum® Direct Attach panels

TECTUM® WOOD FIBER – CEMENTITIOUS

**TECTUM®**

Lay-in  
coarse texture



Tectum® Lay-in 24" x 24" panels in White with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

plus capabilities  
to do more

armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

Tectum® Lay-in ceiling panels provide durable, sustainable, acoustical options for a wide variety of applications.

**KEY SELECTION ATTRIBUTES**

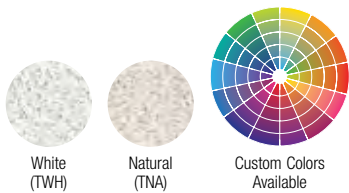


- Tectum® panels are Living Product Imperative Certified by the International Living Future Institute – 1" panels in White and Natural only
- Tectum panels are part of the Sustain® portfolio and meet the most stringent sustainability standards today – 1" panels in White and Natural only
- Durable for heavy use interiors
- Wide variety of color options available, including custom colors
- Can be field painted up to six times without impacting acoustic or fire performance
- Short lead times

**TYPICAL APPLICATIONS**

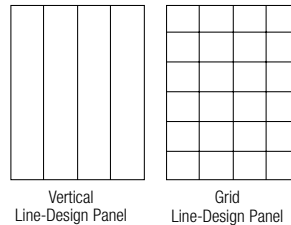
- Gymnasiums
- Auditoriums
- Multi-purpose Spaces
- Exposed Structures
- Acoustical Retrofits
- Education Spaces

**COLORS** Due to printing limitations, shade may vary from actual product.



**LINE DESIGN CAPABILITIES**

Available through special order.



**DETAILS**



1. Tectum® Lay-in
2. Tectum® Lay-in with Prelude® 15/16" suspension system

Note: Panel edges are unfinished.

# TECTUM®

## Lay-in coarse texture



Declare™  
Third Party Verified  
Living Product  
Imperative  
Certified



For LEED contribution visit  
armstrongceilings.com/greengenie



### VISUAL SELECTION

Edge Profile	Suspension Detail Dwg. Pgs. 474-478	Item No. ◆	Dimensions (Inches)
<b>TECTUM® Lay-in (FSC® Certified)</b>			
15/16" Square Lay-in	1	<b>8184T10</b> __	24 x 24 x 1"
	1	<b>8183T10</b> __	24 x 48 x 1"
	1	<b>Other Size Panels</b>	1", 1-1/2", or 2" thickness

### PERFORMANCE SELECTION

Dots represent high level of performance.

LOCATION DEPENDENT

Fire Rating	Light Reflect (White Only)	Mold & Mildew Protection BioBlock	Sag Resist Humi-Guard+	Certified Low VOC Emissions	Wash	Impact	Scratch	30-Yr Warranty
Class A	Up to 0.75	•	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•	•
Class A	Up to 0.75	•	•	–	•	•	•	•

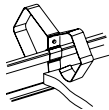
### ACOUSTICAL INFORMATION

Item No.	Infill Panel Item No.	NRC	+ CAC	=	Total Acoustics <sup>1</sup> NRC + CAC
<b>8184T10</b> __	–	0.40	–	–	–
<b>8183T10</b> __	–	0.40	–	–	–
<b>8184T10</b> __	1713	0.90	33	–	–
<b>8183T10</b> __	1713	0.90	33	–	–

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+)  
**BETTER** (NRC 0.70-0.75; CAC 35+)  
**BEST** (NRC 0.80+; CAC 35+)

◆ When specifying or ordering, include the appropriate 3-digit color suffix TNA = Natural, TWH = White (e.g. 8184T10 I W H)  
 For special sizes, and colors, call TechLine at 1 877 276-7876.

### ACCESSORIES

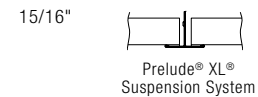


**Tectum® Hold-Down Clip**  
**8178T10** – 1" Panel Thickness  
**8178T20** – 1-1/2" Panel Thickness

Attaches to main beams and cross tees behind lay-in ceilings; helps prevent panel displacement from non-deliberate contact by basketballs and other forces from below the ceiling.

<b>1713</b>	<b>School Zone™ Fine Fissured Lay-in Acoustical Panel</b>	24 x 24 x 3/4"	White	12 pcs/ctn
-------------	---	----------------	-------	------------

### SUSPENSION SYSTEMS



### PHYSICAL DATA

**Material**  
 Cementitious Wood Fiber; FSC®-certified (COC-003601). For more information about FSC®-certified fire-retardant products, or to view our FSC®-certification letter, contact TechLine at 1 877 276 7876.

**Surface Finish**  
 Factory-applied latex paint with Silicate surface coating for abuse resistance. Natural is unpainted.

**Fire Performance**  
 Class A per IBC. Flame Spread Index 25 or less and Smoke Developed Index 50 or less when tested in accordance with ASTM E84.

CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less and Smoke Developed Index of 50 or less.

**VOC Emissions**  
 Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED®, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Humidity/Sag Resistance**  
 HumiGuard® Plus panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
 Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**Installation Considerations**  
 Use caution and wear appropriate hand, eye, and dust mask protection when cutting and installing Tectum® panels. Refer to installation instructions for complete details and cutting recommendations.

**Primary (Embodied) Energy**  
 See all LCA information on our EPD's.

**Application Considerations**  
 Color variation among panels is common due to the natural characteristics of the wood on White and Natural panels.

Wood fibers may appear orange on Natural colored panels due to the characteristics of the wood.

**Design Support**  
 Project management assistance is available by calling TechLine at 1 877 276 7876.

**Specification Consideration**  
**FSC Certified panels available upon request.**

**Attention:** For FSC®-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

**Seismic Restraint**  
 Tectum® Lay-in panels are approved for application in all seismic areas when installed per Armstrong Ceilings Installation Instructions.

**Warranty**  
 30-Year Performance Guarantee and Warranty when installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Weight; Square Feet/Carton**  
 1" – 1.65 lbs/SF  
 8183T10 – 4 pcs/ctn  
 8184T10 – 8 pcs/ctn

TechLine / 1 877 276-7876  
 armstrongceilings.com/TECTUM

BPCS-5615-918

LEED® is a registered trademark of the U.S. Green Building Council®.  
 Declare™ is a service mark of The International Living Future Institute.  
 FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C., license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates. © 2018 AWI Licensing LLC  
 Printed in the United States of America



**TECTUM®**  
Tegular  
coarse texture

**TOTAL  
ACOUSTICS®**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)

**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems



plus capabilities  
to do more

armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

Tectum® Tegular 24" x 48" panels in White with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

Tectum® Tegular ceiling panels provide durable, sustainable, acoustical options for a wide variety of applications.

**KEY SELECTION ATTRIBUTES**



- Tectum® panels are Living Product Imperative Certified by the International Living Future Institute – 1" panels in White and Natural only
- Tectum panels are part of the Sustain® portfolio and meet the most stringent sustainability standards today – 1" panels in White and Natural only
- Get Total Noise Control and design flexibility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance
- Durable for heavy use interiors
- Wide variety of color options available, including custom colors

- Short lead times
- Can be field painted up to six times without impacting acoustic or fire performance

**TYPICAL APPLICATIONS**

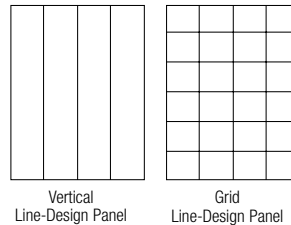
- Gymsnasiums
- Auditoriums
- Multi-purpose Spaces
- Corridors
- Education Spaces

**COLORS** Due to printing limitations, shade may vary from actual product.



**LINE DESIGN CAPABILITIES**

Available through special order.



**DETAILS**



1. Tectum® Tegular
  2. Tectum® Tegular with Prelude® 15/16" suspension system
- Note: Panel edges including visible Tegular edge are unfinished.

# TECTUM®

## Tegular

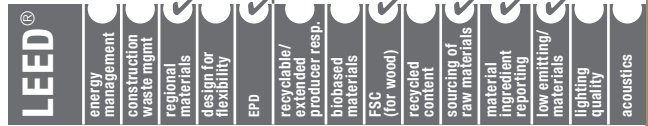
coarse texture



Declare™  
Third Party Verified  
Living Product  
Imperative  
Certified



For LEED contribution visit  
armstrongceilings.com/greengenie



### VISUAL SELECTION

Edge Profile	Suspension Detail Dwg. Pgs. 474-478	Item No. ♦	Dimensions (Inches)
<b>TECTUM® Tegular (FSC® Certified)</b>			
15/16" Square Tegular	8	<b>8186T10</b> __ __	24 x 24 x 1"
	8	<b>8185T10</b> __ __	24 x 48 x 1"
8	<b>Other Size Panels</b>		1", 1-1/2", or 2" thickness

### PERFORMANCE SELECTION

Dots represent high level of performance.

Fire Rating	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	30-Yr Warranty
Class A	Up to 0.75	•	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•	•
Class A	Up to 0.75	•	•	–	•	•	•	•

Labels: (White Only), BioBlock, Humi-Guard+, Durability

### ACOUSTICAL INFORMATION

Item No.	Infill Panel Item No.	NR C	CAC	Total Acoustics <sup>1</sup>
<b>8186T10</b> __ __	–	0.40	–	–
<b>8185T10</b> __ __	–	0.40	–	–
<b>8186T10</b> __ __	1713	0.90	35	<b>BEST</b>
<b>8185T10</b> __ __	1713	0.90	35	<b>BEST</b>

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+)  
**BETTER** (NRC 0.70-0.75; CAC 35+)  
**BEST** (NRC 0.80+; CAC 35+)

♦ When specifying or ordering, include the appropriate 3-digit color suffix TNA = Natural, TWH = White (e.g. 8185T10 I W H)  
For special sizes, and colors, call TechLine at 1 877 276-7876.

### ACOUSTICAL INFILL PANELS

<b>1713</b>	School Zone® Fine Fissured Lay-in Acoustical Panel	24 x 24 x 3/4"	White	12 pcs/ctn
-------------	--	----------------	-------	------------

### SUSPENSION SYSTEMS

15/16"	
	Prelude® XL® Suspension System

### PHYSICAL DATA

**Material**  
Cementitious Wood Fiber; FSC®-certified (COC-003601). For more information about FSC®-certified fire-retardant products, or to view our FSC®-certification letter, contact TechLine at 1 877 276 7876.

**Surface Finish**  
Factory-applied latex paint with Silicate surface coating for abuse resistance. Natural is unpainted.

**Fire Performance**  
Class A per IBC. Flame Spread Index 25 or less and Smoke Developed Index 50 or less when tested in accordance with ASTM E84.  
CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less and Smoke Developed Index of 50 or less (painted, face only).

**VOC Emissions**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED®, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

**Humidity/Sag Resistance**  
HumiGuard® Plus panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**Installation Considerations**  
Use caution and wear appropriate hand, eye, and dust mask protection when cutting and installing Tectum® panels. Refer to installation instructions for complete details and cutting recommendations.

**Primary (Embodied) Energy**  
See all LCA information on our EPDs.

**Application Considerations**  
Color variation among panels is common due to the natural characteristics of the wood on White and Natural panels. Wood fibers may appear orange on Natural colored panels due to the characteristics of the wood.

**Specification Consideration**  
**FSC Certified panels available upon request.**  
**Attention:** For FSC®-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

**Seismic Restraint**  
Tectum Tegular panels are approved for application in all seismic areas when installed per Armstrong Ceilings Installation Instructions.

**Warranty**  
30-Year Performance Guarantee & Warranty when installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Weight; Square Feet/Carton**  
1" – 1.65 lbs/SF  
8186T10 – 8 pcs/ctn  
8185T10 – 4 pcs/ctn



TECTUM® WOOD FIBER – CEMENTITIOUS

## INTEGRATED CEILING SOLUTIONS

From one end of the building to the other, these tested integrated ceiling systems are designed to be easy to specify and build. In addition, they provide enhanced safety, performance, and aesthetics – from integration of lighting, shade pockets, and air diffusers to elevation changes and acoustical and drywall suspension system options.

[armstrongceilings.com/integratedsolutions](http://armstrongceilings.com/integratedsolutions)

Integrated Services



Linear Lighting



Light Covers



Downlighting



Shade Pockets



Common Conditions





# INTEGRATED CEILING

INTEGRATED CEILING SOLUTIONS

### INTEGRATED SERVICES



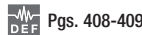
TECHZONE® Ceiling Systems



Pgs. 402-407



DC FLEXZONE™



Pgs. 408-409



Data Centers



Pgs. 410-411

### ICON KEY

Icons are used throughout the catalog to help you quickly identify key product attributes.

#### High Acoustics Total Acoustics®

Product has both NRC of 0.60 or greater AND CAC of 35 or higher.

Product has AC (Articulation Class) 170 or greater.

#### Fire Performance

Fire Guard™/Fire Resistive products tested in specific UL floor/ceiling or roof/ceiling design assemblies.

#### Seismic

Category D, E & F

#### High Light Reflectance

Light reflectance average of 0.83 or greater. White only.

#### Humidity/Sag Resistance

##### HumiGuard® Plus

Superior sag resistance, recommended for areas subject to high humidity, up to standing water and outdoor applications.

#### High Durability

##### Washability

Offers superior wash resistance without compromising panel finish integrity, using a washability tester as per ASTM D4828.

##### Scrubability

Withstands up to 150 scrub cycles using a scrubability tester as per ASTM D2486.

##### Impact Resistance

Excellent resistance to surface impact as per striking ball test.

##### Scratch Resistance

Excellent resistance to surface scratching, scuffing or chipping as per Hess Rake Test.

##### Soil Resistance

Excellent resistance to dirt and/or grease; for lasting value and performance as per simulated air diffuser soiling test.

#### Color Availability

Available in color.

#### Sustainability

Product is part of Sustain® Portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain® colors only.

Product is recyclable through the Armstrong Ceilings Recycling Program.

### LIGHTING

#### Linear Lighting



Acoustical On-Center Linear Lighting



Pg. 412



Drywall Linear Lighting

Pg. 413



FORMATIONS™ Clouds Linear Lighting Kits



Pg. 414



T-Bar LED Linear Lighting



Pg. 415

#### Coves



Light Coves – Direct AXIOM® Trim



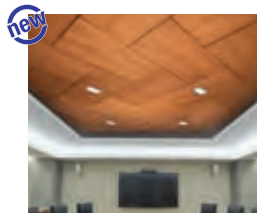
Pg. 420



Light Coves – Indirect AXIOM® Trim



Pg. 420



Light Coves – Indirect Field AXIOM® Trim



Pg. 421



Light Coves – Indirect Light Ledge AXIOM® Trim



Pg. 423

#### Downlighting



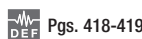
Intersection Downlighting



Pgs. 416-417



Center-Cut Panels for Downlighting



Pgs. 418-419

#### SHADE POCKETS



AXIOM® Building Perimeter System Shade Pockets



Pgs. 424-427



AXIOM® Building Perimeter Shade Pockets (Lutron®-compatible)



Pgs. 428-429

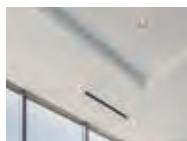
### COMMON BUILDING CONDITIONS



Window & Shade Pockets Pg. 433



Transitions Pgs. 434-436



Soffits Pg. 437



Light Coves & Pockets Pgs. 438-439



Flat & Curved Drywall Ceilings Pg. 440



Interior Glass Partitions Pg. 441



Corridors Pgs. 442-443

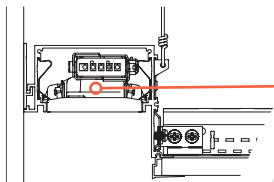


Tackle Common Job-Site Conditions with Integrated Ceiling Solutions

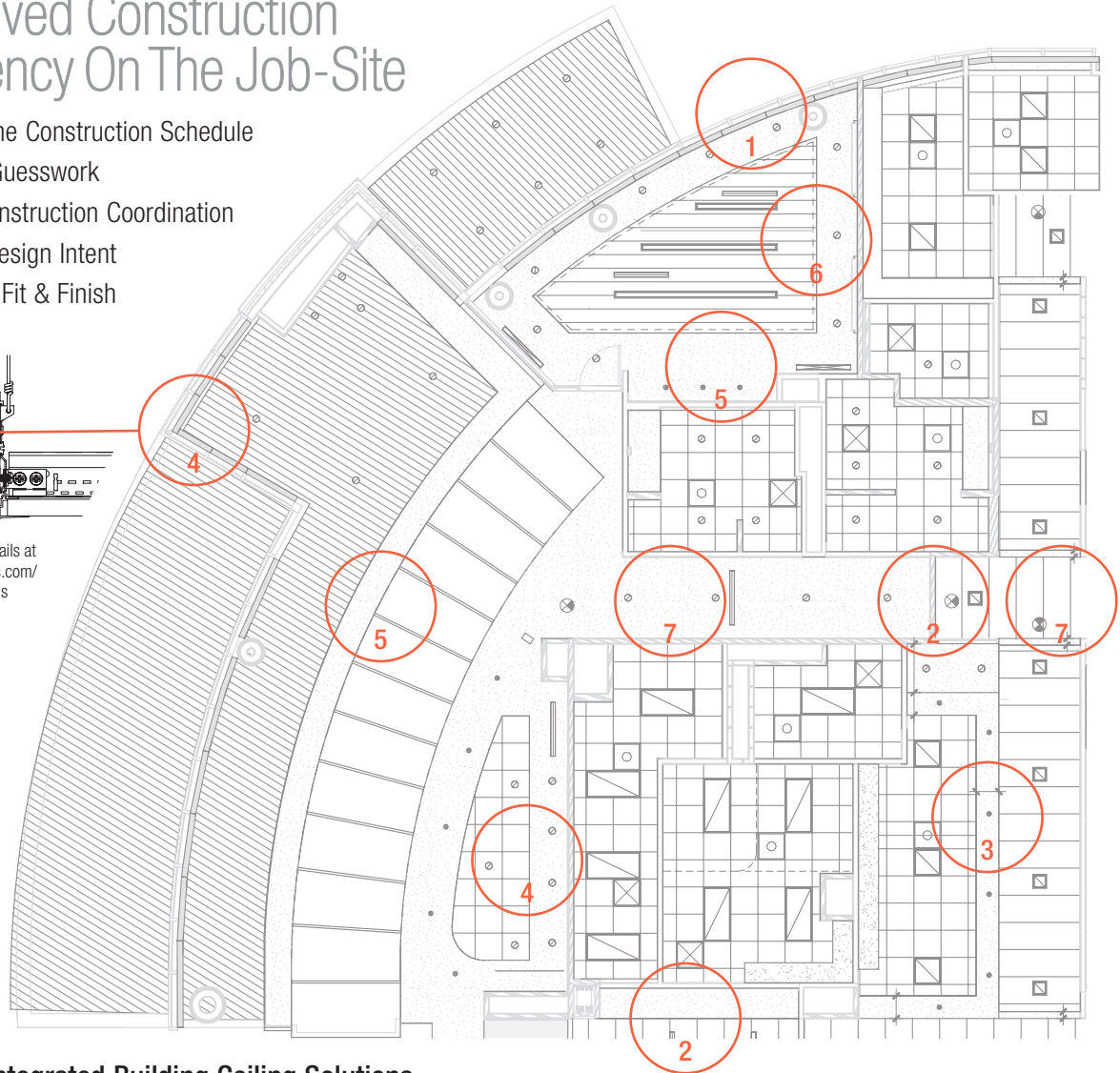
Time & Labor Saving Solutions  
+ Ceiling Construction Expertise

= Improved Construction Efficiency On The Job-Site

- Minimize the Construction Schedule
- Eliminate Guesswork
- Reduce Construction Coordination
- Maintain Design Intent
- Consistent Fit & Finish



See complete details at [armstrongceilings.com/commonconditions](http://armstrongceilings.com/commonconditions)



End-to-End Integrated Building Ceiling Solutions

WINDOW & SHADE POCKETS

TRANSITIONS

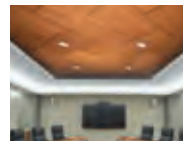
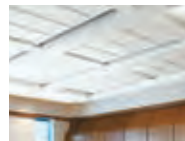
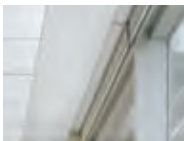
SOFFITS

LIGHT COVES & POCKETS

FLAT & CURVED DRYWALL

INTERIOR GLASS PARTITIONS

CORRIDORS



1 Axiom® Building Perimeter Shade Pockets

2 Transition Molding & Axiom® Transitions

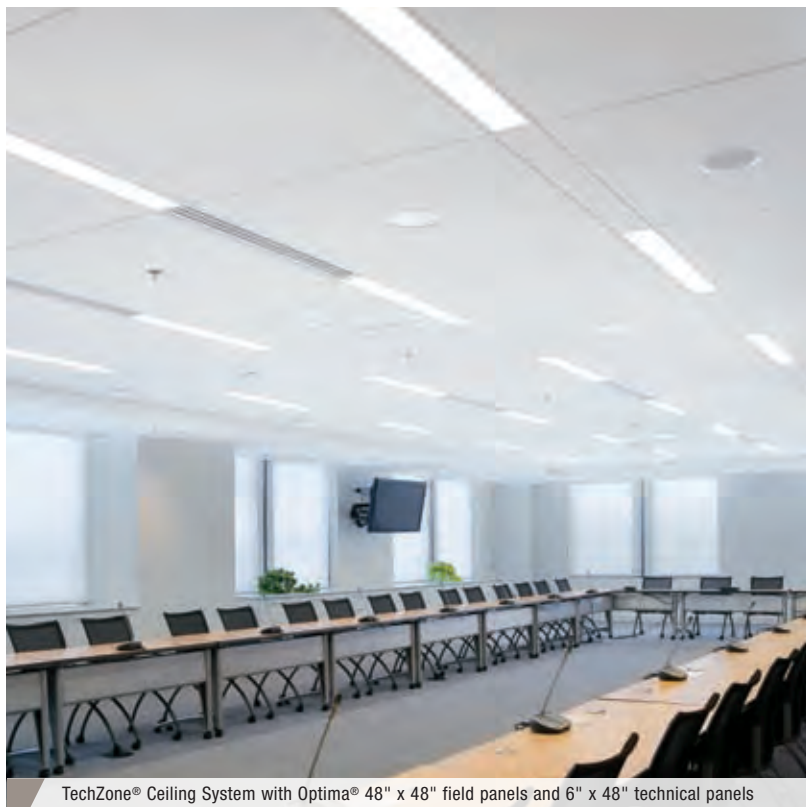
3 QuikStix™ Drywall Framing for Soffits

4 Axiom® Direct & Indirect Light Coves

5 Drywall Grid System

6 Axiom® Glazing Channel

7 SingleSpan™ for ACT & ShortSpan® for Drywall



TechZone® Ceiling System with Optima® 48" x 48" field panels and 6" x 48" technical panels

Organize lighting, air diffusers/returns, sprinkler systems into 4", 6", or 12" wide technical zones.

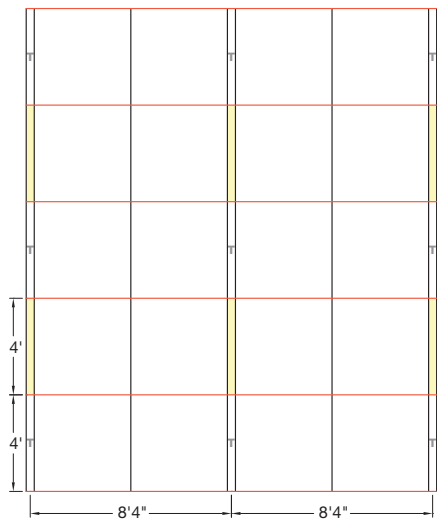
**KEY SELECTION ATTRIBUTES**

- A clean, monolithic look using standard ceiling panels and suspension system
- Now many options are part of the Sustain™ Ceiling Systems portfolio, meeting the most stringent sustainability compliance standards today
- Available with Lyra® PB, Optima®, Calla®, Ultima®, MetalWorks™ and WoodWorks® panels
- A range of compatible fixtures from partner companies that are prequalified for fit and finish. Visit [armstrongceilings.com/techzone](http://armstrongceilings.com/techzone) for links to partners for lighting, chilled beams, diffusers and sprinklers

**STEP 1: DESIGN YOUR LAYOUT**

See all 50+ Layouts at [armstrongceilings.com/techzone](http://armstrongceilings.com/techzone)  
 See our lighting partners (Pg. 431), if that helps determine your layout module

Ceiling Module 4'  
 On-Center Spacing 8'4"  
 Field Panel 48" x 48"



KEY: Main Runners    Cross Tees    Lights (suggested location)

**STEP 2: CHOOSE YOUR FIELD PANELS\***

LYRA® PB†, CALLA®†, OPTIMA®†, OR ULTIMA®†



White (WH)

**WOODWORKS®†**

**Natural Variations™**  
 (Real Wood Veneers)



Beech (NBE)



Maple (NMP)



Light Cherry (NLC)



Dark Cherry (NDC)

**Bamboo**  
 (Rapidly Renewable)



Patina (BAP)

**Perforation Options**  
 (1:2 scale shown)



Unperforated (W1)



Round Straight Rg 6006 (W2) (field panels only)

**METALWORKS™†**



Whitelume (WHA)



Silverlume (SIA)



Gun Metal (MYA)



Unperforated (M1)



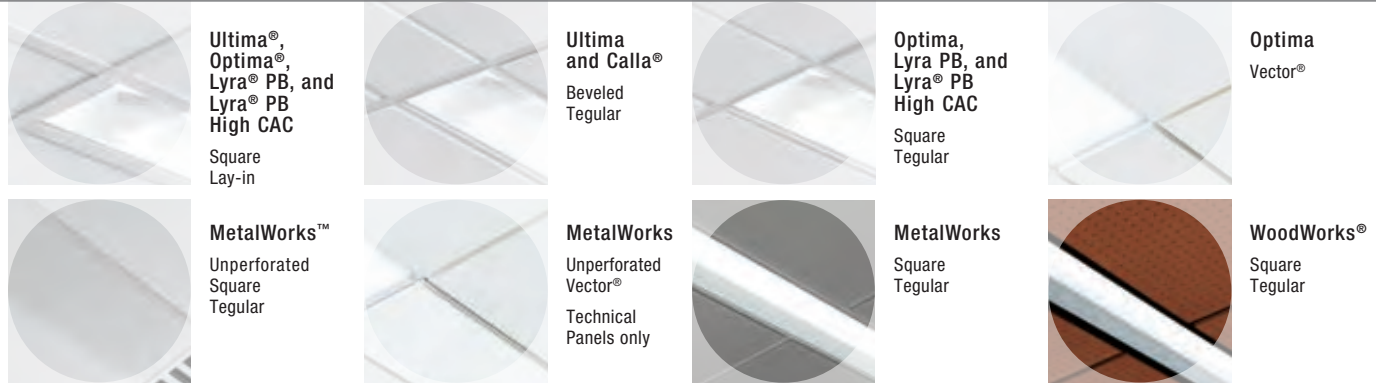
Pattern 2 Rd 1612 (M15) (field panels only)

\* Total Acoustics® ceiling panels offer an ideal combination of noise reduction and sound-blocking performance in one product.

# INTEGRATED SERVICES TECHZONE® Ceiling Systems

Designing Your TechZone® Ceiling

## EDGE DETAILS



## FIELD PANEL OPTIONS VISUAL SELECTION

## PERFORMANCE

Dots represent high level of performance.

Description	Acoustics		Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect (White Only)	Sag Resist (Humi-Guard+)	Wash	Scrub	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
	NRC	+ CAC													
Lyra® PB	0.95	N/A	-	190	Class A	0.88	•	•	-	•	•	•	71%	•	•
Lyra® PB High CAC	0.95	42	-	200	Class A	0.88	•	•	-	-	•	•	59%	•	•
Optima® 1" thick panels	0.95	N/A 26*	-	190	Class A	0.90	•	•	-	•	•	•	71%	•	•
Optima 3/4" thick panels	0.90	N/A	-	180	Class A	0.90	•	•	-	•	•	•	71%	•	•
Calla®	0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	-	•	•	•	Up to 76%	•	•
Ultima®	0.75	35	<b>BETTER</b>	N/A	Class A	0.90	•	•	-	•	•	•	Up to 80%	•	•
Ultima (items 1905, 1929)	0.75	35	<b>BETTER</b>	N/A	Class A	0.90	Std	•	-	•	•	•	Up to 80%	•	1-Yr
WoodWorks® Unperforated	N/A	38	-	N/A	Class A	N/A	Std	-	-	-	-	-	92%	-	1-Yr
WoodWorks W2 Perforated with infill panel	0.40	28	-	N/A	Class A	N/A	Std	-	-	-	-	-	92%	-	1-Yr
MetalWorks™ Unperforated	0.40	28	-	N/A	Class A	0.89	•	•	•	•	-	•	25%	-	1-Yr
MetalWorks M15 Perforated	0.70	38†	<b>BETTER</b>	N/A	Class A	0.77	•	•	•	•	-	•	25%	-	1-Yr
MetalWorks M15 Perforated with infill panel	0.90	N/A	-	N/A	Class A	0.77	•	•	•	•	-	•	25%	-	1-Yr

† With Item #747 mineral fiber backing \* With CAC backing <sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

Suspension Dimension	Edge Profile	Dimensions	Lyra® PB	Optima®	Calla®	Ultima®	WoodWorks® Unperforated	WoodWorks® Perforated	MetalWorks™ Unperforated	MetalWorks™ Perforated	Item No.
15/16"	Prelude® XL® Square Lay-In	20" x 60"		3156††							
		24" x 24"	8732PB	3152††/3150**		1910†					
		24" x 48"		3153††/3151**		1913†					
		24" x 60"		3164		1984					
		24" x 72"	8450PB	3161**††		1980†					
		24" x 96"		3162**††							
		30" x 30"	8452PB	3158††		1905†					
		30" x 60"	8453PB	3157††							
		48" x 48"	8370PB	3160††/3160PB							
		48" x 96"		3154							



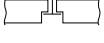
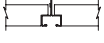
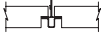
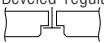


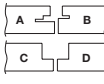
\*\* These panels are 3/4" thick.

†† Environmental Product Declaration




# INTEGRATED SERVICES TECHZONE® Ceiling Systems

## FIELD PANELS

		Lyra® PB	Optima®	Calla®	Ultima®	WoodWorks® Unperforated	WoodWorks® Perforated	MetalWorks™ Unperforated	MetalWorks™ Perforated	
Suspension Dimension	Edge Profile	Dimensions		Item No. ♦						
15/16"	Prelude® XL® Square Tegular 	20" x 60"			3278†					
		24" x 24"	8360PB, 8730PB		3250†					
		24" x 48"	8352PB		3252†					
		24" x 72"			3281†					
		24" x 96"			3282†					
		30" x 30"			3258†					
		30" x 60"			3286†					
		48" x 48"	8355PB		3255†					
15/16"	Prelude XL Beveled Tegular 	24" x 24"		2822	1911†					
		24" x 48"		2823	1914†					
		24" x 60"			1985					
		24" x 72"			1981†					
9/16"	Suprafine® XL® Square Tegular 	12" x 48"	8377PB	3290	2824	6484W1 ___	6484W2 ___	6643M1 ___	6643M15 ___	
		20" x 54"		3276†	2825					
		20" x 56"		3266†						
		20" x 60"		3277†						
	Silhouette® XL Square Tegular 1/4" Reveal 	21" x 24"		3279†						
		24" x 24"	8361PB, 8731PB	3251†		5406W1 ___	5406W2 ___	6641M1 ___	6641M15 ___	
		24" x 42"		3280†		6510W1 ___	6510W2 ___	6644M1 ___	6644M15 ___	
		24" x 48"	8357PB	3257†		6486W1 ___	6486W2 ___	6642M1 ___	6642M15 ___	
	Interlude® XL® Square Tegular 	24" x 60"	8365PB	3265†						
		24" x 72"	8381PB	3261†						
		24" x 96"	8382PB	3262†						
		27" x 30"		3283†		6512W1 ___	6512W2 ___	6645M1 ___	6645M15 ___	
		28" x 30"	8461PB	3268†						
		28" x 60"		3269†						
		30" x 30"	8359PB	3259†		6511W1 ___	6511W2 ___	6646M1 ___	6646M15 ___	
		30" x 54"		3284†						
	9/16"	Suprafine XL Beveled Tegular 	24" x 24"			1912†				
			24" x 48"			1915†				
		Silhouette® XL® Beveled Tegular 	24" x 60"			1986				
			24" x 72"			1982†				
Interlude® XL® Beveled Tegular 		30" x 30"			1905†					
		30" x 54"			1929					
15/16"		Vector® with 1/4" Reveal 	24" x 24"		3900					
			24" x 48"		3908					
			24" x 72"		3906					
			24" x 96"		3907					
	30" x 30"			3904						
	48" x 48"			3909						

♦ Add 3-letter color suffix to item number when specifying or ordering (e.g. 6484W1 N M P) WoodWorks Field Panel Color Choices: Beech (NBE), Maple (NMP), Light Cherry (NLC), Dark Cherry (NDC), Bamboo Patina (BAP); MetalWorks Field Panel Color Choices: Whitelume (WHA), Silverlume (SIA), Gun Metal (MYA)

† Environmental Product Declaration 



INTEGRATED CEILING SOLUTIONS

# INTEGRATED SERVICES TECHZONE® Ceiling Systems

## STEP 3: CHOOSE YOUR TECHNICAL PANEL Include finish, and perforation if applicable for your selected layout.

### LYRA® PB\*, OPTIMA®, OR ULTIMA®\*



White  
(WH)

### WOODWORKS®

#### Natural Variations™ (Real Wood Veneers)



Maple  
(NMP)



Light Cherry  
(NLC)



Dark Cherry  
(NDC)

#### Bamboo (Rapidly Renewable)



Patina  
(BAP)

#### Perforation Options



Unperforated  
(W1)

### METALWORKS™



Whitelume\*  
(WHA)



Silverlume\*  
(SIA)



Gun Metal\*  
(MYA)



Black  
(BL)



Unperforated  
(M1)

\*Part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today

### TECHNICAL PANELS

		Lyra® PB	Optima®	Ultima®	WoodWorks® Unperforated	MetalWorks™ Unperforated	
Suspension Dimension	Edge Profile	Dimensions		Item No. ♦			
15/16"	Prelude® XL® Square Lay-In 	4" x 48"	8334PB	1462		7261M1WHA	
		4" x 60"	8335PB	1463		7262M1WHA	
		6" x 48"	8336PB	1400†	1420		7255M1 ___
		6" x 60"	8337PB	1404†	1425		7256M1 ___
15/16"	Prelude XL Square Tegular 	4" x 48"				7259M1WHA	
		4" x 60"				7260M1WHA	
		6" x 48"			1402†		
		6" x 60"			1406†		
		12" x 24"			3264		
15/16"	Prelude XL Beveled Tegular 	6" x 48"				1422	
		12" x 24"				1917†	
9/16"	Suprafine® XL® Square Tegular* 	4" x 48"	8344PB	1410		7251M1	
		4" x 60"	8345PB	1411		7252M1	
	Silhouette® XL® Square Tegular 	6" x 6"		1412†		6519W1 ___	6647M1 ___
		6" x 12"		1413†			6648M1 ___
		6" x 42"		1415†			
		6" x 48"	8346PB	1403†		6513W1 ___	6649M1 ___
	Interlude® XL® Square Tegular 	6" x 54"		1417†			
		6" x 60"	8347PB	1407†		6514W1 ___	6650M1 ___
		6" x 96"		1409†			
		12" x 24"		3263			
9/16"	Suprafine XL Beveled Tegular 	6" x 48"				1423	
		6" x 60"				1427	
	Silhouette XL Beveled Tegular 	6" x 60"					1427
		12" x 24"					1916†
		12" x 24"					1916†
15/16"	Vector® with 1/4" Reveal 	6" x 48"		1466		7257M1WHA	
		6" x 60"				7258M1WHA	
		6" x 96"		1467			

♦ When specifying or ordering, add 3-letter color suffix to item number (e.g. 6484W1 N M P) WoodWorks Field & Technical Panel Color Choices: Beech (NBE), Maple (NMP), Light Cherry (NLC), Dark Cherry (NDC), Bamboo Patina (BAP); MetalWorks Field & Technical Panel Color Choices: Whitelume (WHA), Silverlume (SIA), Gun Metal (MYA)

† Environmental Product Declaration

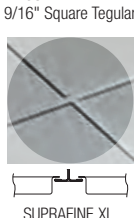
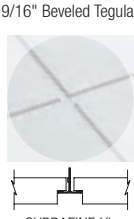
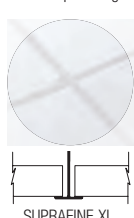
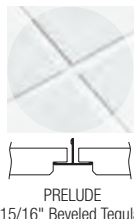


## STEP 4: CHOOSE A COMPATIBLE SUSPENSION SYSTEM

### Item No. Description

#### Prelude® XL® – 15/16" Suspension System

7300	144" ID Prelude XL Main Beam
7301	144" HD Prelude XL Main Beam
7306	132" HD Prelude XL Main Beam
XL7304	4" Prelude XL Cross Tee
XL7306	6" Prelude XL Cross Tee
XL7328	24" Prelude XL Cross Tee
XL7340	48" ID Prelude XL Cross Tee
XL7341	48" HD Prelude XL Cross Tee
XL7358	60" Prelude XL Cross Tee
XL7378	30" Prelude XL Cross Tee
XL7380	96" Prelude XL Cross Tee
XL7390	72" Prelude XL Cross Tee

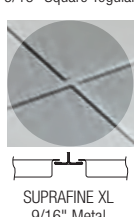
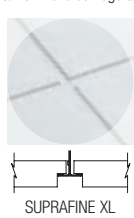


#### Suprafine® XL® – 9/16" Suspension System

7500	144" ID Suprafine XL Main Beam
7501	144" HD Suprafine XL Main Beam
7504	120" HD Suprafine XL Main Beam
7505	100" HD Suprafine XL Main Beam
7507	144" HD Suprafine XL Main Beam
7508	132" HD Suprafine XL Main Beam
7512	120" HD Suprafine XL Main Beam
7536	144" HD Suprafine XL Main Beam
7588	88" HD Suprafine XL Main Beam
XL7504	4" Suprafine XL Cross Tee
XL7506	6" Suprafine XL Cross Tee
XL7510	12" Suprafine XL Cross Tee
XL7561	21" Suprafine XL Cross Tee
XL7520	24" Suprafine XL Cross Tee
XL7567	27" Suprafine XL Cross Tee
XL7528	28" Suprafine XL Cross Tee
XL7570	30" Suprafine XL Cross Tee
XL7562	42" Suprafine XL Cross Tee
XL7563	44" Suprafine XL Cross Tee
XL7540	48" ID Suprafine XL Cross Tee
XL7549	48" HD Suprafine XL Cross Tee
XL7564	54" Suprafine XL Cross Tee
XL7569	54" Suprafine XL Cross Tee
XL7556	56" Suprafine XL Cross Tee
XL7558	60" Suprafine XL Cross Tee
XL7568	66" Suprafine XL Cross Tee
XL7590	72" Suprafine XL Cross Tee
XL7580	96" Suprafine XL Cross Tee

#### Suprafine XL – Colors - 9/16" Suspension System ♦

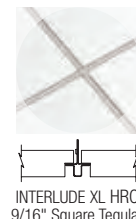
TZ7501 __	120" HD Suprafine Main Beam
TZ7504 __	144" HD Suprafine Main Beam*
TZXL7504 __	4" Suprafine XL Cross Tee
TZXL7506 __	6" Suprafine XL Cross Tee
TZXL7510 __	12" Suprafine XL Cross Tee
TZXL7520 __	24" Suprafine XL Cross Tee
TZXL7567 __	27" Suprafine XL Cross Tee
TZXL7570 __	30" Suprafine XL Cross Tee
TZXL7562 __	42" Suprafine XL Cross Tee
TZXL7541 __	48" Suprafine XL Cross Tee
TZXL7564 __	54" Suprafine XL Cross Tee
TZXL7556 __	56" Suprafine XL Cross Tee
TZXL7558 __	60" Suprafine XL Cross Tee
TZXL7568 __	66" Suprafine XL Cross Tee



### Item No. Description

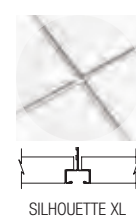
#### Interlude® XL® HRC – 9/16" Suspension System

6100HRC	144" ID Interlude XL HRC Main Beam
6101HRC	144" HD Interlude XL HRC Main Beam
6121HRC	144" ID Interlude XL HRC Main Beam
6121AHRC	144" HD Interlude XL HRC Main Beam
6122HRC	120" HD Interlude XL HRC Main Beam
6123HRC	88" HD Interlude XL HRC Main Beam
6127HRC	120" HD Interlude XL HRC Main Beam
6132HRC	132" HD Interlude XL HRC Main Beam
6187HRC	100" HD Interlude XL HRC Main Beam
6197HRC	144" HD Interlude XL HRC Main Beam
XL6104HRC	4" Interlude XL HRC Cross Tee
XL6106HRC	6" Interlude XL HRC Cross Tee
XL6110HRC	12" Interlude XL HRC Cross Tee
XL6161HRC	21" Interlude XL HRC Cross Tee
XL6120HRC	24" Interlude XL HRC Cross Tee
XL6167HRC	27" Interlude XL HRC Cross Tee
XL6128HRC	28" Interlude XL HRC Cross Tee
XL6170HRC	30" Interlude XL HRC Cross Tee
XL6162HRC	42" Interlude XL HRC Cross Tee
XL6163HRC	44" Interlude XL HRC Cross Tee
XL6140HRC	48" Interlude XL HRC Cross Tee
XL6164AHRC	54" Interlude XL HRC Cross Tee
XL6169HRC	54" Interlude XL HRC Cross Tee
XL6156HRC	56" Interlude XL HRC Cross Tee
XL6150HRC	60" Interlude XL HRC Cross Tee
XL6168HRC	66" Interlude XL HRC Cross Tee
XL6190HRC	72" Interlude XL HRC Cross Tee
XL6180HRC	96" Interlude XL HRC Cross Tee



#### Silhouette® XL® 1/4" Reveal – 9/16" Suspension System

7611	144" HD Silhouette XL Main Beam
7613	108" HD Silhouette XL Main Beam
7619	78" Silhouette XL Main Beam
7621	90" HD Silhouette XL Main Beam
7622	102" HD Silhouette XL Main Beam
7626	120" HD Silhouette XL Main Beam
7637	96" HD Silhouette XL Main Beam
7638	126" HD Silhouette XL Main Beam
7639	126" HD Silhouette XL Main Beam
XL7604	4" Silhouette XL Cross Tee
XL7606	6" Silhouette XL Cross Tee
XL7621	21" Silhouette XL Cross Tee
XL7620	27" Silhouette XL Cross Tee
XL7670	30" Silhouette XL Cross Tee
XL7663	44" Silhouette XL Cross Tee
XL7640	48" Silhouette XL Cross Tee
XL7645	48" Silhouette XL Cross Tee – center notched both sides
XL7646	48" Silhouette XL Cross Tee – center notched one side
XL7652	54" Silhouette XL Cross Tee
XL7653	56" Silhouette XL Cross Tee
XL7651	60" Silhouette XL Cross Tee – notched one side at 20" and 40"
XL7654	60" Silhouette XL Cross Tee – notched both sides at 20" and 40"
XL7655	60" Silhouette XL Cross Tee – center notched both sides
XL7656	60" Silhouette XL Cross Tee – center notched one side
XL7690	72" Silhouette XL Cross Tee
XL7680	96" Silhouette XL Cross Tee



## STEP 5: CHOOSE YOUR PERIMETER TRIM, MOLDINGS, AND ACCESSORIES

### WALL-TO-WALL INSTALLATION

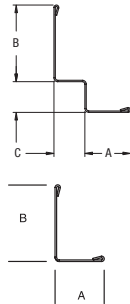
#### Select Perimeter Angle at Wall

Regular, Lay-in, and Vector® Shadow Molding

**7875** – A-3/4", B-15/16", C-1/2"

**7877** – A-15/16", B-15/16", C-1/4"

**7897** – A-15/16", B-15/16", C-1/2"



Regular, Lay-in, and Vector Angle Molding

**7800** – A-7/8", B-7/8"

**7804** – A-9/16", B-7/8"

**7808** – A-2", B-2"

**BERC2** – Seismic-compatible steel beam end retaining clip

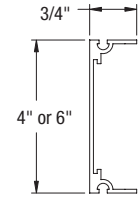
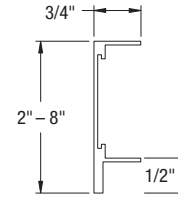
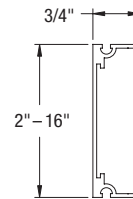
### CLOUD / FLOATING INSTALLATION

#### Select Perimeter Trim at Floating Edge

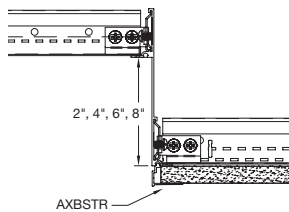
Axiom® Classic trim – straight or curved

Axiom® Vector® trim – straight or curved

WoodWorks™ trim (with aluminum substrate) – straight or curved

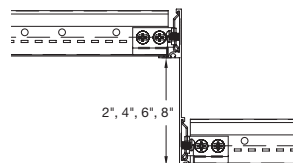


### ELEVATION OR MATERIAL TRANSITIONS IN THE CEILING PLANE



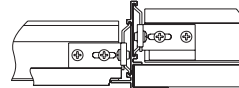
**Axiom Transitions**  
Acoustical Ceiling to Drywall  
Elevation Changes

Curved AXTRXCUR  
Straight AXTRXSTR



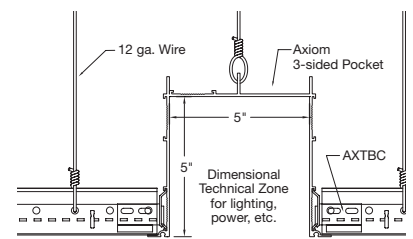
**Axiom Transitions**  
Acoustical Ceiling to Acoustical  
Ceiling Elevation Changes

Curved AXTRXCUR  
Straight AXTRXSTR



**Axiom Transitions**  
Acoustical Ceiling to  
Drywall in Same Plane

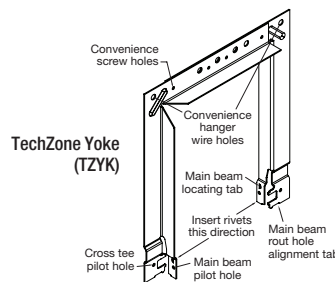
Curved AXTRTECUR  
Straight AXTRTESTR



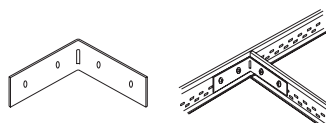
**Axiom Dimensional TechZone**  
Straight AXP3552

### TECHZONE® YOKE ALLOWS TRUE CONTINUOUS LIGHT

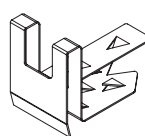
- Create a sleek ceiling design with uninterrupted ribbons of light
- Alternate continuous lights and diffusers with other services for a monolithic, uncluttered visual
- Easy installation
- Seismic tested
- Ability to use with 4" and 6" configurations



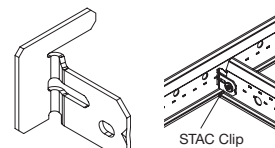
### MOLDING & ACCESSORIES



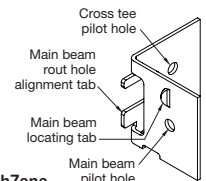
**Cross Tee Adapter Clip (XTAC)**  
Used to attach field-cut cross tees to main beams.



**Stabilizer Clip, Item 435, for Optima®**  
Recommended for panels 5' and greater in length. Ordered separately.  
NOTE: Panels 5' up to 8' – One clip installed near the midpoint of each long edge. Panels 8' – Two clips installed at one-third points of each long edge.



**STAC Clip (STAC)**  
Single tee attachment clip for creating playful designs with off module lighting. Seismic tested.



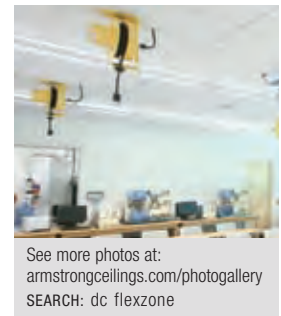
**TechZone Bracing Clip (TZBC)**  
Used to connect cross tees to the main beam of the continuous technical zone when no yoke is present.

# INTEGRATED SERVICES

## DC FLEXZONE™

### Suspension System

CAD/Revit® drawings at:  
armstrongceilings.com



This “power distribution platform” distributes safe, low-voltage DC current through a ceiling suspension system.

#### KEY SELECTION ATTRIBUTES

- Can be an integral part of a net zero energy-building strategy providing more efficient lighting and direct use of on-site renewable energy
- Provides plug-and-play flexibility throughout the building
- Main beams only with integrated electrical conductors are capable of distributing power to electrical devices
- UL Listed and EMerge Alliance® Registered for use in 24VDC power distribution systems
- Installed acoustically as part of the overall ceiling system, with electrical connections to suspension system made by qualified electricians
- High recycled content, galvanized steel for durability, and sustainable design
- Seismic performance with heavy-duty load rating meets the most stringent codes

#### DC FlexZone™ Silhouette®

- DC circuits available on top bulb and in slot reveal
- Integrates with standard cross tees, moldings, and accessories for Silhouette 1/4" Reveal suspension system
- Crisp reveal installs virtually flush with Tegular ceiling panel surface for monolithic appearance

#### DC FlexZone™ Suprafine®

- Single DC circuit available on top bulb only
- Integrates with standard cross tees, moldings, and accessories for Suprafine® and Suprafine HRC suspension systems
- Exposed Tee design combines superior durability and stability with a narrow suspension system face for a refined appearance

#### PARTNER



See complete partner list at  
armstrongceilings.com/dcflexzone



# INTEGRATED SERVICES DC FLEXZONE™ Suspension System

UP TO **54%** MAIN BEAMS **61%** BORDER MAIN BEAMS **52%** CROSS TEES **RECYCLED CONTENT**

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## VISUAL SELECTION

Grid Face	Item No.	Description	Dimensions (Inches)
<b>DC FlexZone™ Suprafine® Main Beams</b>			
9/16"	<b>DC750106</b>	6' HD Main Beam, Routs 12" OC, First Rout 6" from end	72 x 9/16 x 1-11/16"
9/16"	<b>DC750108</b>	8' HD Main Beam, Routs 12" OC, First Rout 6" from end	96 x 9/16 x 1-11/16"
9/16"	<b>DC750110</b>	10' HD Main Beam, Routs 12" OC, First Rout 6" from end	120 x 9/16 x 1-11/16"
9/16"	<b>DC750112</b>	12' HD Main Beam, Routs 12" OC, First Rout 6" from end	144 x 9/16 x 1-11/16"
<b>DC FlexZone™ Suprafine® Non-powered Border Main Beams</b>			
9/16"	<b>750106</b>	6' HD Border Main Beam, Routs 12" OC, First Rout 6" from end	72 x 9/16 x 1-11/16"
<b>DC FlexZone™ Silhouette® Main Beams – 1/4" Reveal</b>			
9/16"	<b>DC760106</b>	6' HD Main Beam, Routs 12" OC, Notched 24" OC	72 x 9/16 x 1-15/16 x 1/4"
9/16"	<b>DC760108</b>	8' HD Main Beam, Routs 12" OC, Notched 24" OC	96 x 9/16 x 1-15/16 x 1/4"
9/16"	<b>DC760110</b>	10' HD Main Beam, Routs 12" OC, Notched 24" OC	120 x 9/16 x 1-15/16 x 1/4"
9/16"	<b>DC760112</b>	12' HD Main Beam, Routs 12" OC, Notched 24" OC	144 x 9/16 x 1-15/16 x 1/4"
<b>Non-powered Border Main Beams</b>			
9/16"	<b>760106</b>	6' HD Border Main Beam, Routs 12" OC, Notched 24" OC	72 x 9/16 x 1-3/4 x 1/4"

\* Simple Span

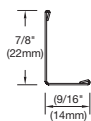
## PERFORMANCE SELECTION

Dots represent high level of performance.

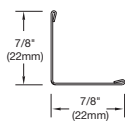
Hanger Spacing* Lbs./Lin. Ft.	Seismic Category	Total Recycled Content	Total Post-consumer Content	PCS/Ctn.	LFT/Ctn.
16.83	•	54%	45%	10	60
16.83	•	54%	45%	10	80
16.83	•	54%	45%	10	100
16.83	•	54%	45%		120
16.83	•	61%	50%	20	120
16.44	•	44%	37%	10	60
16.44	•	44%	37%	10	80
16.44	•	44%	37%	10	100
16.44	•	44%	37%	10	120
16.44	•	61%	50%	20	120

## DC FLEXZONE™ SUPRAFINE®

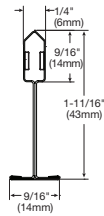
### Details and Suspension System Intersection



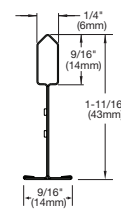
9/16" Hemmed Angle Molding (7804HRC)



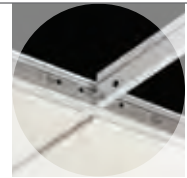
7/8" Hemmed Angle Molding (7800HRC)\*\*



DC FLEXZONE SUPRAFINE Main Beam



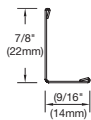
SUPRAFINE Cross Tee



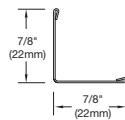
\*\* For seismic zones, use 7800HRC with BERC2 clip

## DC FLEXZONE™ SILHOUETTE®

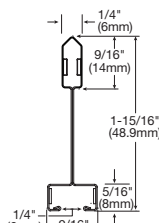
### Details and Suspension System Intersection



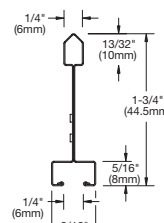
9/16" Hemmed Angle Molding (7804HRC)



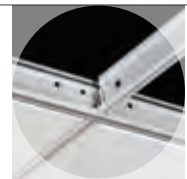
7/8" Hemmed Angle Molding (7800HRC)\*\*



DC FLEXZONE SILHOUETTE Main Beam



SILHOUETTE Cross Tee



\*\* For seismic zones, use 7800HRC with BERC2 Clip

## ACCESSORIES

Item No.	Description	Dimensions (Inches)	Pcs./Ctn
<b>DCINS</b>	Insulator Cap	2"	100
<b>BACG90A</b>	Brace Attachment Clip		250
<b>UPC</b>	Universal Partition Clip		200

# INTEGRATED SERVICES

## Data Center Ceiling Systems



Complete assortment of integrated ceiling systems for Data Centers.

### KEY SELECTION ATTRIBUTES

- Armstrong® Data Center ceiling systems offer:
  - Improved air flow management
  - Load-carrying capacity, adaptability

- **Prelude® XL MAX® suspension system**
  - Provides maximum load carrying capacity
  - 3/8" threaded rod support
  - Reconfigurable hanging clips for cable tray and electrical distribution

- **Armstrong® Ultima® Health Zone™ & Clean Room™ ceiling systems**
  - Soil Resistant
  - Excellent sound blocking (CAC 35-38)

For details and specifications for Prelude® XL MAX® Suspension Systems, see Pgs. 460-461.

# INTEGRATED SERVICES

## Data Center Ceiling Systems



The Prelude® XL MAX® suspension system supports single point loads for cable trays, busways, and more.

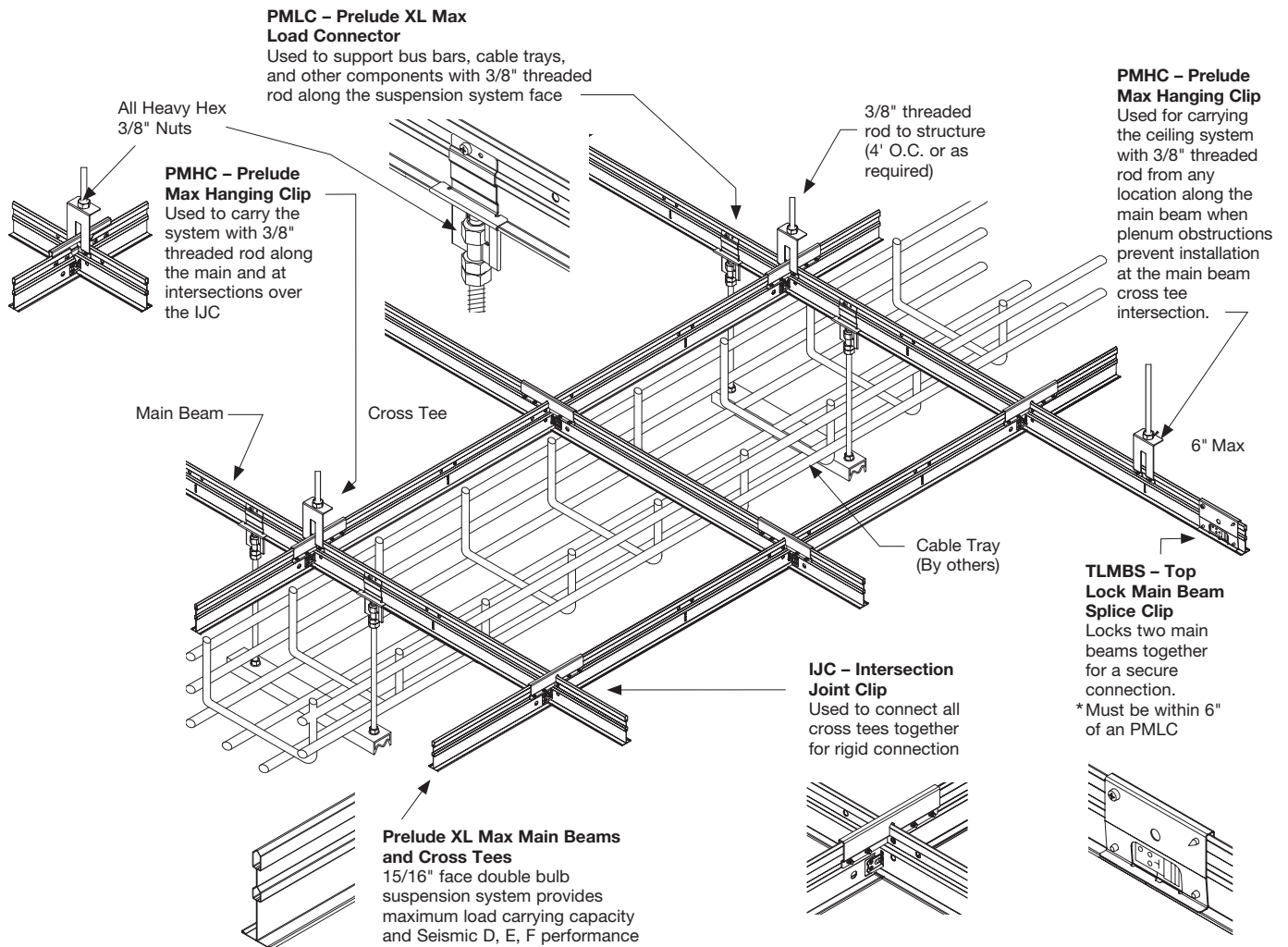


Integrated hanging clips allow connection to 3/8" threaded rod for flexible and reconfigurable overhead cable tray and electrical distribution without a separate strut channel system.



Load connector clips attach to the face of the suspension system to eliminate unsightly threaded rod penetrations through the ceiling plane to minimize unwanted air infiltration while improving access, cable tray layout options, and aesthetics.

### PRELUDE® XL MAX® INSTALLATION OVERVIEW



### RECOMMENDED CEILING PANELS FOR DATA CENTERS

#### Ultima® Health Zone™ (details Pgs. 386-389)

- Smooth, clean, durable finish – Impact-resistant, scratch-resistant, and soil-resistant; safe for use with disinfectants
- Long-lasting water-repellency; washable and scrubbable
- Excellent sound absorption
- 30-Year Limited System Warranty against visible sag, mold, and mildew

#### Clean Room™ FL / VL (details Pgs. 298-299)

- Clean Rooms up to ISO Class 5 (Class 100)
- Durable – washable, scrubbable, soil-resistant
- Non-directional visual reduces installation time and scrap
- 30-Year Limited System Warranty against visible sag, mold, and mildew



# LIGHTING SOLUTIONS

## Acoustical On-Center Linear Lighting

50% RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengene](http://armstrongceilings.com/greengene)

LEED®	energy management	ALUMINUM	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
▲ LOCATION DEPENDENT														



Continuous or non-continuous on-center linear lighting layouts – inspiring symmetry to match your building design.

### KEY SELECTION ATTRIBUTES

- Zero Interference – Eliminates interference with mechanicals in the plenum
- Zero Construction Coordination – Install from below to speed construction
- Zero Independent Suspension – No independent suspension is required; approved for Seismic D, E, F installations
- Using a combination of FastSize™ factory-finished ceiling panels and suspension systems, perfect lighting layouts like this are easy to specify and install.

\* Refer to the Made-to-Order capabilities on ceiling product pages to view ceiling panels and suspension systems.

### COLOR

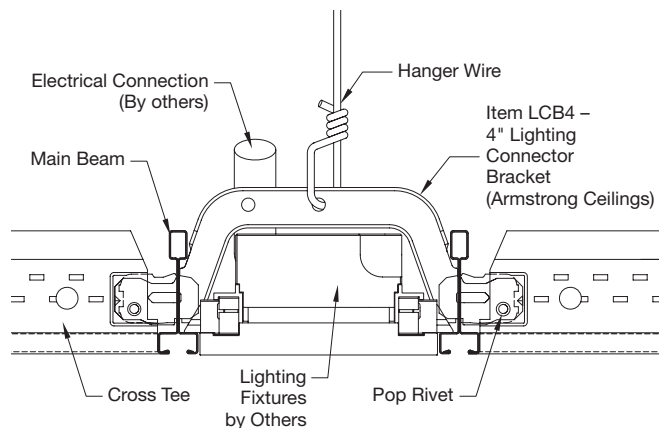
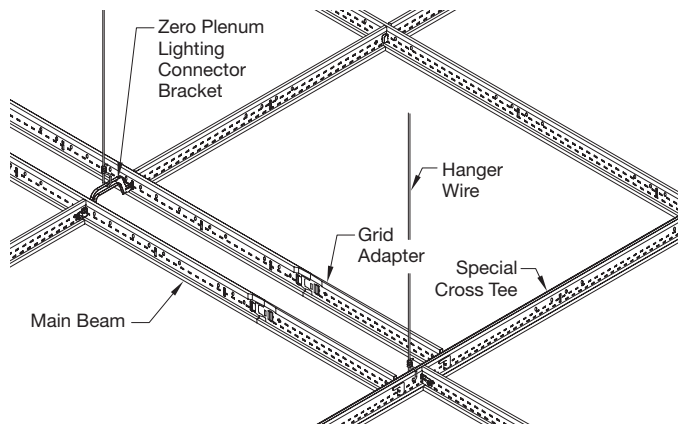
Standard



White (WH)

Due to printing limitations, shade may vary from actual product.

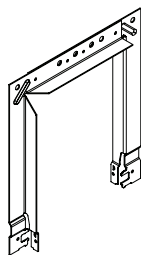
### ON-CENTER LIGHTING FOR ACOUSTICAL APPLICATIONS



### ACCESSORIES

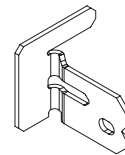
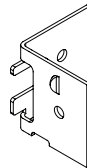
#### Cross Tee Adapter Clip (XTAC)

- Create a sleek ceiling design with uninterrupted ribbons of light
- Alternate continuous lights and diffusers with other services for a monolithic, uncluttered visual
- Easy installation
- Seismic tested
- Ability to use with 4" and 6" configurations



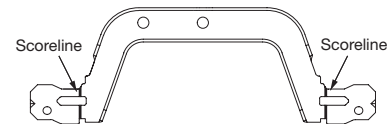
#### TechZone® Ceiling Systems Bracing Clip (TZBC)

Use to connect cross tees to the main beam of the continuous technical zone when no yoke is present.



#### STAC Clip

Allows you to create strong, code compliant, non-seismic and seismic D, E, F main beam-to-cross tee connections.



### PHYSICAL DATA

#### Material

Commercial quality extruded aluminum alloy 6063

#### Surface Finish

Factory-applied baked polyester paint finish

#### Warranty

10-Year Limited Warranty; 30-Year System Warranty

#### ICC Reports

For areas under ICC jurisdiction, see evaluation report numbers ESR-1289 and ESR-1308 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The reports are subject to reexamination, revisions, and possible cancellation.

### LIGHTING FIXTURES

Compatible with XAL® LENO® Luminaire and Axis Click



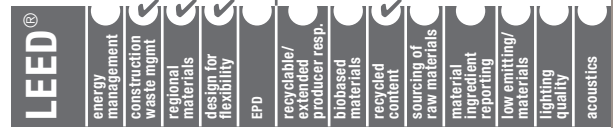
For detailed lighting information, contact your local XAL lighting or Axis representative.

# LIGHTING SOLUTIONS

## Drywall Linear Lighting

50% ALUMINUM RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)



LOCATION DEPENDENT



Optima® 24" x 24" Tegular panels with Suprafine® 9/16" suspension system and integrated linear lighting

Create inspiring ceiling designs with higher ceiling heights, zero plenum interference, and on-center continuous or non-continuous customized layouts that provide clean, modern aesthetics.

### KEY SELECTION ATTRIBUTES

- Seamless integration between drywall ceilings and linear lighting for consistent fit and finish
- Leverage LED in long runs to create a monolithic look - varying length and on-center spacing true to design intent
- Faster and easier to build and install compared to traditional framed linear lighting
- Light fixture installs from below the ceiling to optimize ceiling heights

### TYPICAL APPLICATIONS

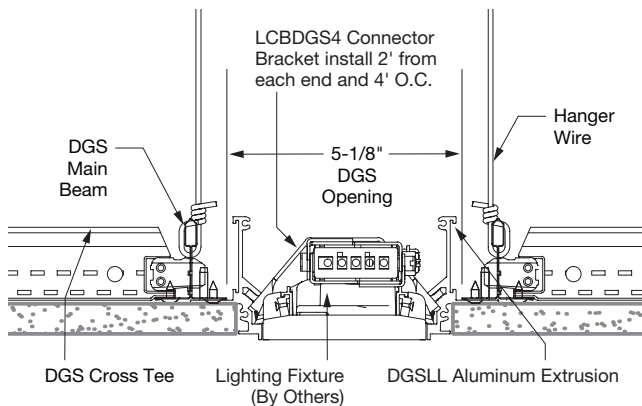
- Offices
- Healthcare
- Hospitality
- High-Rise Residential

### VISUAL SELECTION

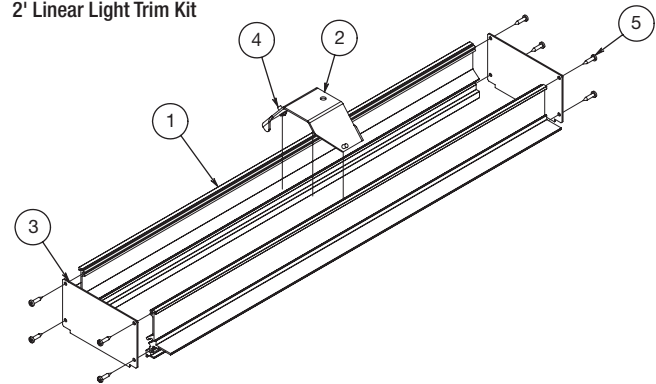
Item No.	Description	Fixture Length
<b>Drywall Linear Lighting</b>		
DGSLLTk24	2' Linear Light Trim Kit	24" x 4"
DGSLLTk30	2' – 6" Linear Light Trim Kit	30" x 4"
DGSLLTk48	4' Linear Light Trim Kit	48" x 4"
DGSLLTk60	5' Linear Light Trim Kit	60" x 4"
DGSLLTk72	6' Linear Light Trim Kit	72" x 4"
DGSLLTk90	7' – 6" Linear Light Trim Kit	90" x 4"
DGSLLTk96	8' Linear Light Trim Kit	96" x 4"
DGSLLTk120	10' Linear Light Trim Kit	120" x 4"
DGSLLTkCON	10' Continuous Linear Light Trim Kit	10'

### Trim Kit Components Included

1. Aluminum Extrusions (2)
2. Connector Bracket (1)
3. End Plates (2)
4. #8-32 x 5/16" Pan Head Machine Screws
5. #6-20 x 5/8" Pan Head Sharp Point Screws



### 2' Linear Light Trim Kit



### LIGHTING FIXTURES

Compatible with XAL® LENO® Luminaire and Axis Click

For detailed lighting information, contact your local XAL lighting or Axis representative.

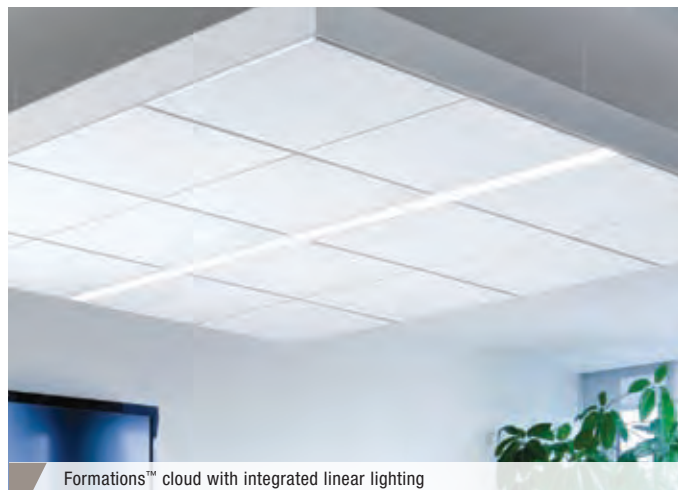


NOTE: Refer to the Drywall/Stucco/Plaster – Flat Ceilings (Pgs. 497-499) to view additional components needed.

# LIGHTING SOLUTIONS

## FORMATIONS™ Clouds Linear Lighting Kits

LED Recessed Lighting



Formations™ cloud with integrated linear lighting

The epitome of simple sophistication – TruGroove LED lighting in Formations™ Clouds provides unrivaled performance and a truly innovative design.

### KEY SELECTION ATTRIBUTES

- Offers best possible combination of lighting control and brightness
- Creates a balanced luminous environment with smooth, even gradients of light
- Easy to install
- Unique cable-cinch design saves time and money
- Offers wide row spacing to create uniform illumination using fewer fixtures and less energy

### VISUAL SELECTION

Cloud Size	Suspension Kit Item No. <small>(Axiom® Vector® Trim &amp; Suspension System)</small>
6' x 8'	<b>L0608T__AV__</b>
8' x 8'	<b>L0808T__AV__</b>
8' x 10'	<b>L0810T__AV__</b>
* 10' x 10'	<b>L1010T__AV__</b>

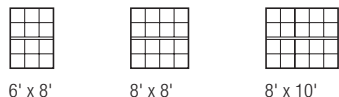
### PANEL SELECTION

Optima® Beveled Tegular Panels		Ultima® Beveled Tegular Panels		Calla® Beveled Tegular Panels		Lyra® Square Tegular Panels	
24" x 24"		24" x 24"		24" x 24"		24" x 24"	
15/16"	9/16"	15/16"	9/16"	15/16"	9/16"	15/16"	9/16"
3354	3251	1911	1912	2822	2824	8360	8361
3354	3251	1911	1912	2822	2824	8360	8361
3354	3251	1911	1912	2822	2824		
30" x 30"		30" x 30"		30" x 30"		30" x 30"	
3258		1905		-		-	

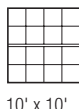
\* 10' x 10' Formations Clouds must use 9/16" suspension system only (Suprafine® or Interlude® XL® HRC)

### PLANKS CLOUD SHAPE AND SIZE SELECTION

#### 24" x 24" Panels



#### 30" x 30" Panels



### HOW TO SPECIFY

Based on the cloud size and shape you choose, you need to specify and order the suspension and trim kit item number, the panel item number, and the Philips Ledalite light fixture you select.

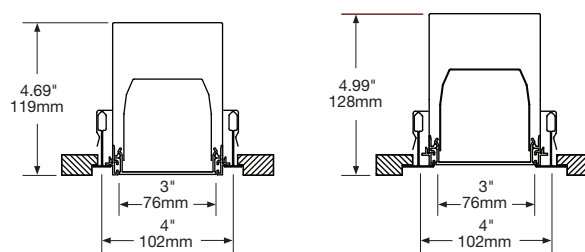
EXAMPLE:

**L0608T\_\_ \* A V \_\_**  
 6' x 8' Cloud    Susp. System    6" or 8" Axiom Vector height    Color Suffix

\* PD = Prelude 15/16"  
 SF = Suprafine 9/16"  
 LD = Interlude XL HRC 9/16"

All clouds come in the color White. All clouds have a 4" wide opening in the center specifically designed for the integration of a Philips Ledalite TruGroove LED fixture.

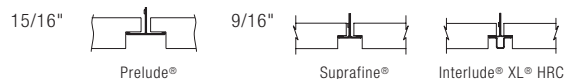
### CEILING PANEL / SUSPENSION SYSTEM / LIGHT FIXTURE INTERFACE



Armstrong® Suprafine 9/16" suspension system with Philips Ledalite TruGroove LED Light

Armstrong® Prelude® 15/16" suspension system with Philips Ledalite TruGroove LED Light

### SUSPENSION SYSTEMS



View installation videos or download CAD, Revit®, and SketchUp® files at [armstrongceilings.com/formations](http://armstrongceilings.com/formations)

### LIGHTING FIXTURES

**PHILIPS**

**LEDALITE**

For TruGroove LED specifications and details, visit [www.ledalite.com](http://www.ledalite.com) (search: trugroove)

# LIGHTING SOLUTIONS

## T-BAR LED Linear Lighting



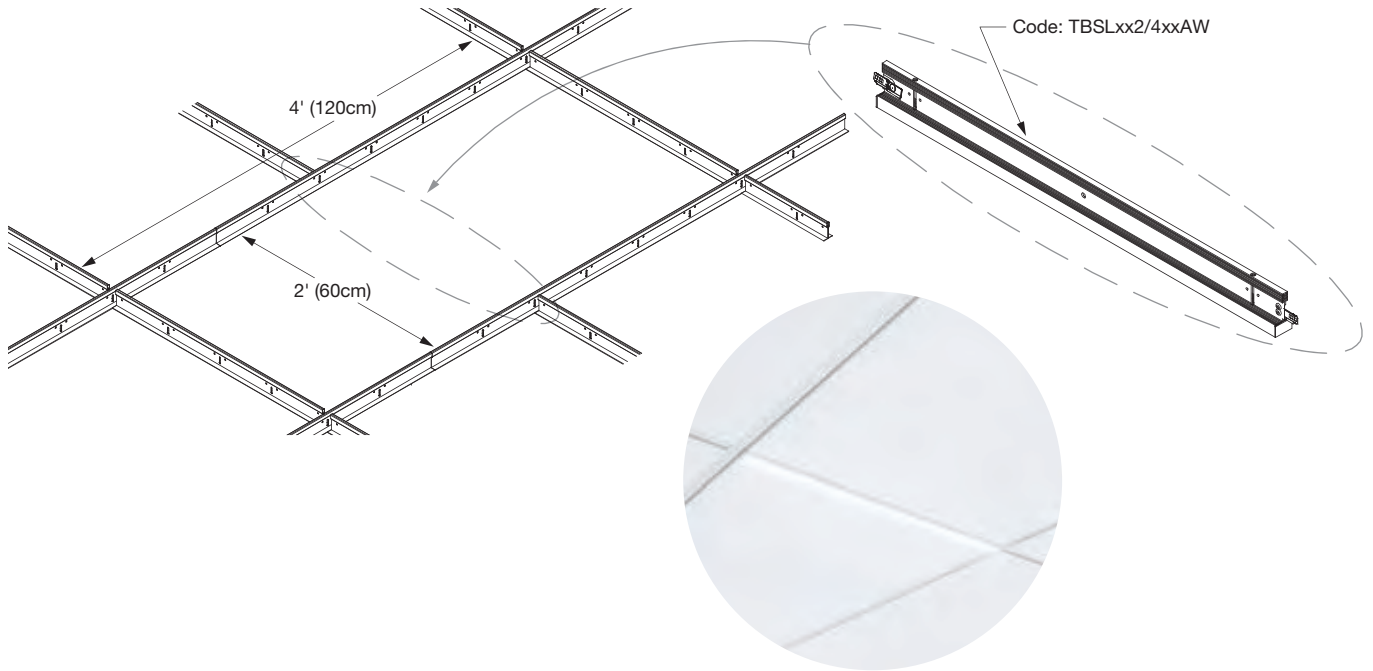
T-Bar LED installation

Zero plenum lighting fixture integrates with Armstrong® LED cross tee clips for seamless integration.

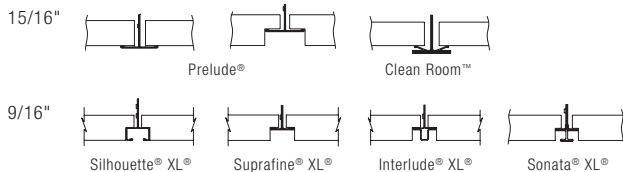
### KEY SELECTION ATTRIBUTES

- Popular linear light fixture available in two lengths with four different lens options, compatible with most Armstrong® 15/16" and 9/16" suspension systems
- Sleek energy-efficient design reduces energy use up to 50% over conventional lighting
- Low-profile design is perfect for use in crowded plenum spaces such as hospitals and corridors
- Seismic D,E, F compliant and pre-engineered to install with all 15/16" and 9/16" Armstrong® suspension systems

### LINEAR LIGHTING FOR ZERO PLENUM APPLICATIONS



### SUSPENSION SYSTEMS



### LIGHTING FIXTURES

JLC • tech

T-BAR LED specified, sold and installed through typical electrical channel. For more information visit JLC-Tech at [www.tbarledsmartlight.com](http://www.tbarledsmartlight.com)

# LIGHTING SOLUTIONS

## Intersection Downlighting for Acoustical Ceilings



Armstrong Intersection Downlighting with USAI Lighting Connect light fixtures

This pre-engineered suspension system seamlessly integrates recessed downlights at the intersection of the ceiling grid, placing light where it has never been before.

### KEY SELECTION ATTRIBUTES

- Lighting and architecture perfectly integrated into the ceiling to deliver your vision of symmetry
- Replaces inconsistent finishes and edge details with clean, crisp factory-finished panels and grid for a fast and easy installation
- Compatible with the USAI Lighting CONNECT™ Family
- Eliminates the worry of field-modified panels and grid
- Seismic code compliant
- Armstrong 10-Year Limited Warranty

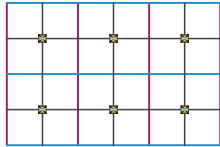
### TYPICAL APPLICATIONS

- Open & Closed Offices
- Lobbies
- Training rooms
- Corridors
- Conference rooms

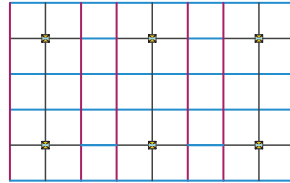
Follow the three (3) steps below when specifying Intersection Downlighting:

#### 1. Choose your ceiling system layout

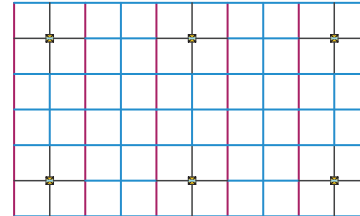
24" x 24" Ceiling panel layout with lights 4' apart



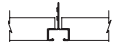

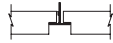
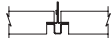
24" x 24" Ceiling panel layout with lights 6' apart



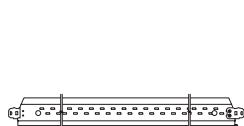
24" x 24" Ceiling panel layout with lights 8' apart



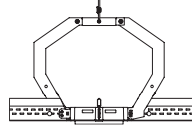
#### 2. Choose your 9/16" Intersection Profile Downlighting Kit (main beams, standard cross tees, wall molding, and lights need to be ordered separately)

Item No.	Description	Item No.	Description
<b>Silhouette® XL® ¼" Reveal</b>		<b>Silhouette XL 1/8" Reveal</b>	
<b>76D4SK24_ _</b>	24" Module Kit	<b>768D4SK24_ _</b>	24" Module Kit
<b>Suprafine® XL®</b>		<b>Interlude® XL® HRC</b>	
<b>75D4SK24_ _</b>	24" Module Kit	<b>61D4SK24_ _</b>	24" Module Kit

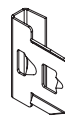
#### KIT COMPONENTS INCLUDED (8 Kits per carton)



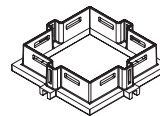
(4) Directional Cross Tees



(1) High-Profile Yoke (not assembled – comes in two pieces)\*

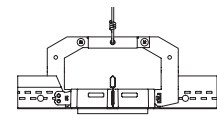


(2) Cross Tee Connection Clips



(1) Downlight Suspension Frame

#### ACCESSORY



**FZD4YKLP**  
Low-Profile Yoke

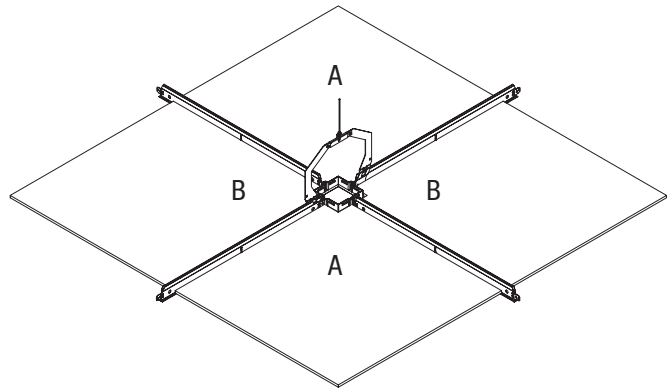
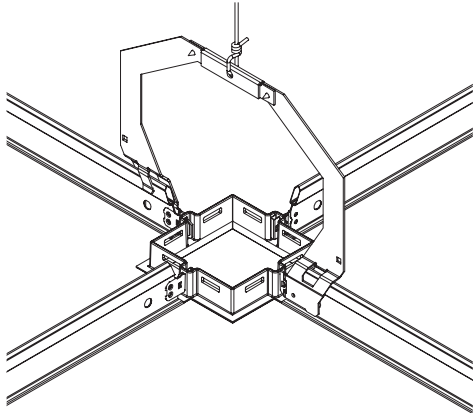
\* Alternate low-profile yoke for low-plenum applications available - Item #: FZD4YKLP



# LIGHTING SOLUTIONS

## Intersection Downlighting for Acoustical Ceilings

### INTERSECTION DOWNLIGHTING ASSEMBLY/CEILING PANEL LAYOUT



NOTE: These are directional panels and come as (8) pieces per carton (4 As / 4 Bs marked)

**3. Choose your Ceiling Panel** Notched Ultima®, Optima®, and Lyra® ceiling panels (24" x 24" tegular panels for 9/16" grid) also available as a special order.

#### VISUAL SELECTION

Edge Profile	Item No.	Dimensions (Inches)
9/16" Square Tegular	<b>2818</b>	24 x 24 x 1"
9/16" Square Tegular	<b>2824</b>	24 x 24 x 1"

#### CALLA® Notched Ceiling Panels

#### CALLA® Compatible Full-Size Panels

#### PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics	Total Acoustics <sup>1</sup>	Articulation Class	Fire Rating	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC + CAC	NRC + CAC	AC												
0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•
0.85	35	<b>BEST</b>	170	Class A	0.86	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.  
**GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)  
 NOTE: Item # 2824 is the compatible full-size (24" x 24" x 1") panel

#### CONNECT™ Family

The aesthetic and uncompromising craftsmanship of the Connect™ Lighting system integrates beautiful illumination with simplicity.

- Award-winning LED performance
- Three different trim aesthetics available: BeveLED, True Zero, and SilverLED
- Industry-leading color consistency
- Full family of downlight, adjustable and wall wash
- Interchangeable beam spreads
- Best-in-class dimming controls compatibility
- Widest range of white light color options
- Color technologies – Classic White, Warm Glow, Dimming, and Color Select options



#### LIGHTING FIXTURES

# USAI® Lighting

For more product information visit: [usailighting.com/connect](http://usailighting.com/connect)

#### PHYSICAL DATA

##### Material

Cross Tees: Hot-dipped galvanized steel  
 High-Profile Yoke: Galvanized steel  
 Low-Profile Yoke: Galvanized steel  
 Cross Tee Connector Clip: Galvanized steel  
 Downlight Suspension Frame: ADC12 Aluminum

##### Surface Finish

Baked polyester paint or powder-coated finish

##### Cross Tee / Downlight Suspension Frame Interface

Flush

##### End detail

Staked-on XL Clip

##### Installation Considerations

The high-profile yoke included in each kit is designed for use with the USAI Lighting CONNECT Family Downlight, Adjustable, and Wall Wash lighting options.

For low plenum installations, the low-profile yoke can be ordered separately and comes with (8) eight unassembled yokes. The low-profile yoke can be used with the USAI CONNECT Family Downlight and Wall Wash options. A low-profile yoke will not fit the housing of a USAI CONNECT adjustable downlight and a high-profile yoke must be used.

Downlight Suspension Frame can only receive directional cross tees. For light spacing 6' apart alternate main beam spacing (4' spacing, 2' spacing).

##### Carton Components:

Each carton contains (8) eight Intersection Downlighting Kits with the following components:

- (32) 22" Directional Cross Tees
- (8) High-Profile Yokes (unassembled)
- (8) Downlight Suspension Frames
- (20) Cross Tee Connection Clips (16 clips are required, 4 extra per carton)

##### Warranty

10-year limited warranty

TechLine / 1 877 276-7876  
[armstrongceilings.com/downlight](http://armstrongceilings.com/downlight)

BPCS-5368-718

USAI Lighting, Connect™, BeveLED, True Zero and SilverLED are trademarks of USAI Lighting, LLC All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
 © 2018 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
 CEILING & WALL SOLUTIONS

417



INTEGRATED CEILING SOLUTIONS



# LIGHTING SOLUTIONS

## Center-Cut Acoustical Panels for Downlighting



Now, get the look of timeless drywall ceilings in a suspended ceiling system. Pre-cut ceiling panels are designed to seamlessly integrate with trimless downlights.

### KEY SELECTION ATTRIBUTES

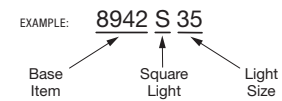
- Calla®, Lyra® PB, Ultima® and Optima® PB 9/16" square and tegular
- Monolithic look with crisp, integrated lighting
- Pre-cut downlight opening available for 3-1/2" or 5" square or round lights
- Fast, easy installation
- No on-site panel cuts needed
- Seismic-tested
- Armstrong Ceilings 10-year limited warranty

Follow the below two (2) steps when specifying Center Cut Panels:

### 1. Choose your Center Cut Ceiling Panel

To specify the correct center cut tile for your system:

1. Choose the appropriate 4-digit base center-cut item number below to indicate product visual and size.
2. Choose if you are using a circle or square light by adding C or S to the item number.
3. Choose the size of the light you are using 3-1/2" or 5" by adding 35 or 5 to the item number.



Example: Lyra® 9/16" square tegular 30" x 30" panel with a 3-1/2" square downlight would be labeled 8942S35

Visual	Size	Edge Detail	Corresponding Field Panel Item #	Base Center-Cut Item #
Calla®	24 x 24 x 1"	9/16" square tegular	2824	8935
Ultima®	24 x 24 x 7/8"	9/16" beveled tegular	1912	8936
	30 x 30 x 7/8"	9/16" beveled tegular	1905	8937
Ultima® High NRC	24 x 24 x 7/8"	9/16" beveled tegular	1942	8938
	30 x 30 x 7/8"	9/16" beveled tegular	1431	8939
Lyra® PB	24 x 24 x 1"	9/16" square tegular	8361PB	8941
	30 x 30 x 1"	9/16" square tegular	8359PB	8942
	48 x 48 x 1"	9/16" square tegular	8356PB	8943
Optima® PB	24 x 24 x 1"	9/16" square tegular	3251PB	8944
	30 x 30 x 1"	9/16" square tegular	3259PB	8946
	48 x 48 x 1"	9/16" square tegular	3256PB	8949

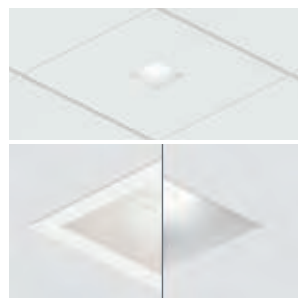
### 2. Choose your 9/16" Suspension System (Note: System uses standard main beams, cross tees and wall molding)



### BEVELED 2.2 TRIMLESS TILE – B4SDP DOWNLIGHT FOR USE WITH CENTER CUT CEILING PANEL

For the first time – a sheetrock-looking solution for acoustical ceiling tiles. Perfectly centered fixtures, perfectly cut tiles – every time.

- The clean, minimal trimless appearance of sheetrock in acoustical tiles
- No cutting, no mess, no mistakes, and less labor
- Proprietary toolless mounting system
- Trimless tile housings perfectly self-center in pre-cut tiles
- NEC grid mount. No independent tie-in to structure required
- Seismically rated



Standard Trim for Acoustical Tile | Trimless Solution for Acoustical Tile

### LIGHTING FIXTURES PARTNER

Acoustical Trimless Light Fixture Family From USAI Lighting Includes:

- BeveLED Mini Round
- BeveLED 2.2 Round
- BeveLED Mini Square
- BeveLED 2.2 Square



For more product information visit: [usailighting.com/trimlesstile](http://usailighting.com/trimlesstile)



# LIGHTING SOLUTIONS

## Center-Cut Acoustical Panels for Downlighting



**GREENGUARD**  
Gold Certified  
(details below)

**SUSTAIN\***  
High Performance  
Sustainable  
Ceiling Systems

### Coordinating Field Panels

#### VISUAL SELECTION

Edge Profile	Item No.	Dimensions (Inches)
<b>CALLA®</b>		
9/16" Square Tegular	<b>2824</b>	24 x 24 x 1"
<b>LYRA® PB (Plant-based Binder)</b>		
9/16" Square Tegular	<b>8361PB</b>	24 x 24 x 1"
	<b>8359PB</b>	30 x 30 x 1"
	<b>8356PB</b>	48 x 48 x 1"
<b>ULTIMA®</b>		
9/16" Beveled Tegular	<b>1912</b>	24 x 24 x 3/4"
	<b>1905</b>	30 x 30 x 3/4"
<b>ULTIMA High NRC</b>		
9/16" Beveled Tegular	<b>1942</b>	24 x 24 x 7/8"
	<b>1431</b>	30 x 30 x 7/8"
<b>OPTIMA® PB (Plant-based Binder)</b>		
9/16" Square Tegular	<b>3251PB</b>	24 x 24 x 1"
	<b>3259PB</b>	30 x 30 x 1"
	<b>3256PB</b>	48 x 48 x 1"

#### PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics	Total Acoustics <sup>1</sup>	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC + CAC =	NRC + CAC	AC	Fire	Light	Bio-Block	Humi-Guard+								
0.85 + 35 = BEST	170	Class A	0.86	•	•	•	•	•	•	•	•	•	•	•
0.95 + N/A = -	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•	•
0.95 + N/A = -	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•	•
0.95 + N/A = -	190	Class A	0.88	•	•	•	•	•	•	•	•	•	•	•
0.75 + 35 = BETTER	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•
0.75 + 35 = BETTER	-	Class A	0.90	•	Std	•	•	•	•	•	•	•	•	•
0.80 + 35 = BEST	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•	•
0.75 + 35 = BETTER	170	Class A	0.87	•	•	•	•	•	•	•	•	•	•	•
0.95 + N/A = -	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•
0.95 + N/A = -	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•
0.95 + N/A = -	190	Class A	0.90	•	•	•	•	•	•	•	•	•	•	•

<sup>1</sup> Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)  
NOTE: Center cut panels are not certified acoustically

#### PHYSICAL DATA

**Material**  
Calla® and Ultima®: Wet-formed mineral fiber with acoustically transparent membrane  
Lyra® and Optima®: Fiberglass with acoustically transparent membrane

**Surface Finish**  
Calla and Lyra: Acoustically transparent membrane with factory-applied latex paint  
Ultima and Optima: DuraBrite® acoustically transparent scrim with factory-applied-latex paint

**Fire Performance**  
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

**ASTM E1264 Classification**  
Calla and Ultima: Type IV, Form 2, Pattern E, Fire Class A  
Lyra and Optima: Type XII, Form 2, Pattern E, Fire Class A

**Humidity/Sag Resistance**  
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

**Mold/Mildew Protection**  
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

**VOC Emissions**  
**GREENGUARD Gold Certified**  
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189/ANSI/GBI Green Building Assessment Protocol.



**Design Considerations**  
Combining materials with different run dates may result in shade variations. Order attic stock for any anticipated future needs.

**Acoustical Performance**  
CAC testing conducted using Silhouette® suspension system for 9/16" edge detail.

**High Recycled Content**  
Classified as containing greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Insulation Value**  
Calla:  
R Factor – 2.9 (BTU units)  
R Factor – 0.445 (Watts units)  
Ultima:  
R Factor – 2.2 (BTU units)  
R Factor – 0.39 (Watts units)

Lyra:  
R Factor – 4.4 (BTU units)  
R Factor – 0.76 (Watts units)  
Optima:  
R Factor – 6.0 (BTU units)  
R Factor – 1.05 (Watts units)

**30-Year Performance Guarantee & Warranty**  
When installed with Armstrong® Suspension System. Details at armstrongceilings.com

**Weight; Square Feet/ Carton**

8935 – 0.99 lbs/SF; 40 SF/ctn	8942 – 0.42 lbs/SF; 75 SF/ctn
8936 – 0.99 lbs/SF; 48 SF/ctn	8943 – 0.42 lbs/SF; 96 SF/ctn
8937 – 0.99 lbs/SF; 37.5 SF/ctn	8944 – 0.43 lbs/SF; 48 SF/ctn
8938 – 1.11 lbs/SF; 40 SF/ctn	8946 – 0.44 lbs/SF; 75 SF/ctn
8939 – 1.11 lbs/SF; 37.5 SF/ctn	8949 – 0.44 lbs/SF; 96 SF/ctn
8941 – 0.41 lbs/SF; 48 SF/ctn	



INTEGRATED CEILING SOLUTIONS

# LIGHTING SOLUTIONS

## Light Covers – Direct

AXIOM® Trim  
straight



Declare<sup>EM</sup>  
Living Building  
Challenge Compliant

SUSTAIN<sup>TM</sup>  
High Performance  
Sustainable  
Ceiling Systems

50% RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LEED <sup>®</sup>	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------------------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



Axiom® – Direct Light Cover

Axiom® extruded aluminum direct light covers offer ultra-low plenum clearance, predictable lighting performance, and perfect integration with all Armstrong® Suspension Systems.

### KEY SELECTION ATTRIBUTES

- Pre-engineered, extruded aluminum light cover profiles with integrated XAL® LENO® and Axis Click light fixtures
- Axiom trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 481)
- Fully concealed integrated design installs with all Armstrong acoustical & drywall suspension systems
- Low profile design with plug & play lighting for easy installation in shallow plenum corridors and entry areas.
- 10-year limited warranty, 30-year system warranty

### COLORS

Standard



White (WH)



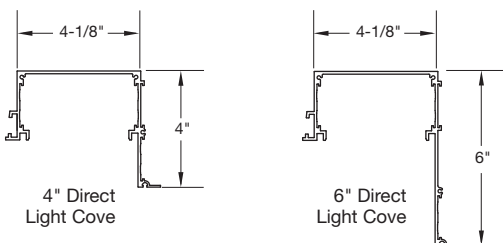
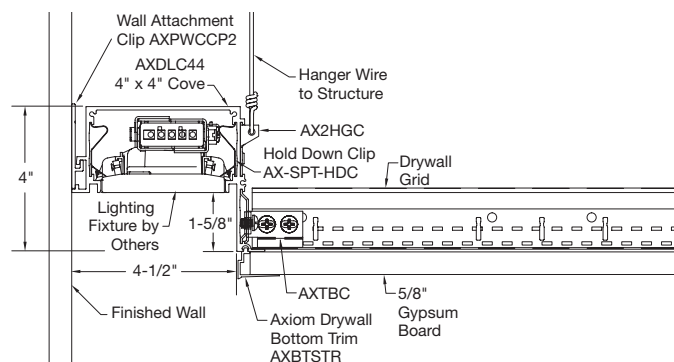
Custom Colors Available

### VISUAL SELECTION

Item No.	Description	Dimensions
<b>Axiom Direct Light Covers</b>		
<b>AXDLC46</b>	4" x 6" Direct Light Cover	120 x 4-1/2 x 6"
<b>AXDLC44</b>	4" x 4" Direct Light Cover	120 x 4-1/2 x 4"

Direct Light Covers: Aluminum extrusions formed with distinct architectural detail groove on bottom flange with special bosses to receive the T-Bar Connection Clip, Hanging Clip, and Splice Plate, provides positive mechanical lock with no visible fasteners. Factory-finished to match approved samples.

### 4" x 6" Direct Light Cover – AXPDL46



### ACCESSORIES

Item No.	Description	
<b>AXBTSTR</b>	Axiom® Bottom Drywall Trim – Straight for 5/8" Drywall	
<b>AX2HGC</b>	Hanging Clip – Hanging Clip: Sheet steel formed to fit into special trim channel bosses and provide positive mechanical lock, screw-fastened connection to suspension members which intersect below the trim channel.	
<b>AXTBC</b>	T-Bar Connection Clip – T-Bar Connection Clip: Galvanized sheet steel formed to fit into special trim channel bosses and provide positive mechanical lock with factory-installed screw, screw-fastened connection to suspension members which intersect the trim channel.	
<b>AX4SPICE</b>	Axiom Splice Plate – Splice Plate: Galvanized sheet steel formed to fit into the trim channel bosses and provide positive lock between abutting channels with factory-installed setscrews.	
<b>AXPWCCP2</b>	Axiom Wall Clip – 2 x 2 x 112"	
<b>AXPDL46ECR</b>	4" x 6" – Light Cover End Cap - Right	
<b>AXPDL46ECL</b>	4" x 6" – Light Cover End Cap - Left	
<b>AXPDL44ECR</b>	4" x 4" – Light Cover End Cap - Right	
<b>AXPDL44ECL</b>	4" x 4" – Light Cover End Cap - Left	
<b>AX-SPT-HDC</b>	Trim Hold-Down Clip	

### LIGHTING FIXTURES

Compatible with XAL® LENO® Luminaire and Axis Click

For detailed lighting information, contact your local XAL lighting or Axis representative.



**new** LIGHTING SOLUTIONS  
Light Covers – Indirect Field

AXIOM® Trim  
straight

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems

**50% RECYCLED CONTENT**  
ALUMINUM

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED** energy management construction waste to reuse regional materials design for flexibility EPD recyclable/extended producer resp. bio-based materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

LOCATION DEPENDENT



Axiom® Indirect Field Light Covers

Axiom® Indirect Field Light Covers install 90% faster with just 10% of the labor of traditional light covers.

**KEY SELECTION ATTRIBUTES**

- Axiom® Indirect Field Light Covers offer predictable lighting performance and perfect integration with all Armstrong suspension systems
- Axiom trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- Adjustability of the drywall vertical leg allows for field modification
- Designed with a notched channel for perfect integration with Axis Cove Perfekt™ Lighting, Vode® ZipWave™ Lighting, Litecontrol® I7L, and i2systems Compose™ fixtures. All fixtures deliver aim free predictable lighting solutions
- Pre-fabricated corners.
- Ability to cut to the length desired in the field
- 10-Year Limited Warranty, 30-Year System Warranty

**LIGHTING FIXTURES**

Compatible with:  
Axis Lighting, Litecontrol, Vode®, and i2Systems Lighting.



**VISUAL SELECTION**

**STRAIGHT: Specify Field Light Cove Item Number**

Example: AXIFLCCKE – Axiom® Indirect Field Light Cove, Ceiling-to-Ceiling Mounting with a Knife Edge® Detail for ACT

Light Cove Type ♦	Mounting	Edge Detail
AXIFL	--	--
	CC – Ceiling-to-Ceiling	4 – 4" Classic
	CW – Ceiling-to-Wall	KE – Knife Edge ACT
		KD – Knife Edge Drywall

♦ Light Covers are 10' in length

**CORNERS: Specify Field Light Cove Corner Item Number**

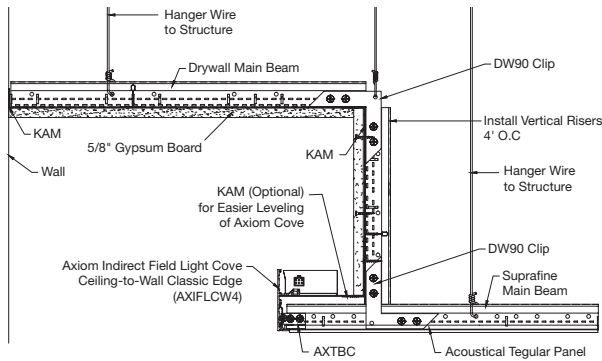
(NOTE – only use this section if you need corners on your project)

Example: AXIFLCWKDOC – Axiom® Indirect Field Light Cove, Ceiling-to-Wall Mounting with a Knife Edge for Drywall Edge Detail, Outside Corner

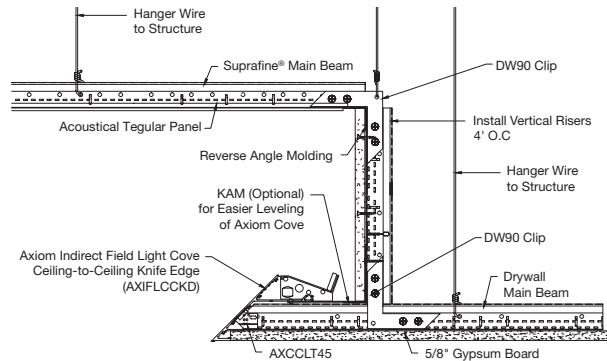
Light Cove Type ♦	Mounting	Edge Detail	Options
AXIFL	--	--	--
	CC – Ceiling-to-Ceiling	4 – 4" Classic	IC – Inside Corner
	CW – Ceiling-to-Wall	KE – Knife Edge ACT	OC – Outside Corner
		KD – Knife Edge Drywall	

**MOUNTING**

**Ceiling-to-Wall Classic**



**Ceiling-to-Ceiling Knife Edge®**



**ACCESSORIES**

Item No.	Description
AXCCLT45	45° T-Bar Connector Twist – For use with Knife Edge Covers
AXBTRSTR	Axiom Bottom Drywall Trim – For use with 4" Classic Edge Covers only
AXTBC	T-Bar Connector Clip – For use with 4" Classic Edge Covers only
AX4SPLICE	Axiom Splice Plate

Item No.	Description
151220E	12" Knurled Angle Molding
DW90C	90° Drywall Angle Clip
7857	Reverse Angle Molding

**PHYSICAL DATA**

**Material**  
Commercial quality 3003 aluminum alloy

**Surface Finish**  
Factory-applied baked polyester paint finish

**Warranty**  
10-Year Limited Warranty; 30-Year System Warranty

**Profile**  
Various options with both Ceiling-to-Wall and Ceiling-to-Ceiling Light Covers in a wide range of sizes with 3/4" horizontal flange.

**Cross Tee/Main Beam Interface**  
Flush fit

**End Detail**  
Splice with screws

**ICC Reports**  
For areas under ICC jurisdiction, see evaluation report numbers ESR-1289 and ESR-1308 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The reports are subject to reexamination, revisions, and possible cancellation.

**Application Considerations**  
Axiom Indirect Field Light Covers cannot be curved.

TechLine / 1 877 276-7876  
[armstrongceilings.com/lighting](http://armstrongceilings.com/lighting)  
(search: lightcovers)  
BPCS-5656-718

LEED® is a registered trademark of the U.S. Green Building Council  
CovePerfekt™ is a trademark of Axis Lighting; Vode® and ZipWave™ are trademarks of Vode Lighting LLC. Compose is a trademark of i2Systems.  
Litecontrol is owned by Hubbell Lighting, Inc. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America





# LIGHTING SOLUTIONS

## Light Covers – Indirect

AXIOM® Trim  
straight



Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

50% RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengene

LEED	energy management	ALUMINUM	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
------	-------------------	----------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



Axiom® Indirect Light Covers

Axiom® Indirect Light Covers offer predictable performance and perfect integration.

### KEY SELECTION ATTRIBUTES

- Axiom® Indirect Light Covers offer predictable lighting performance and perfect integration with all Armstrong® suspension systems
- Axiom Indirect Light Covers is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- With our three lighting partners, this pre-engineered solution offers a variety of options with both Ceiling-to-Wall and Ceiling-to-Ceiling light covers and sizes
- Featuring a new Knife Edge® profile that brings acoustical panels out to the edge of the cove
- 10-Year Limited Warranty, 30-Year System Warranty

### LIGHTING FIXTURES

Compatible with:  
Axis Lighting, Litecontrol,  
Vode® and i2Systems Lighting.



### COLOR



### VISUAL SELECTION

Light Cove Type	Mounting	Edge Detail	Size*	Options
<b>STRAIGHT: Specify Indirect Light Cove Item Number</b> Example: AXIDLCC448S – Axiom Indirect Light Cove, Ceiling-to-Ceiling, 8" Classic Light Cove with Plenum Air Slots				
<b>AXIDL</b>	--	--	----	--
	CC – Ceiling-to-Ceiling	4 – 4" Classic KE – Knife Edge ACT KD – Knife Edge Drywall	812 – 12" Height* 1014 – 14" Height* 1216 – 16" Height* 1418 – 18" Height* 1620 – 20" Height*	Blank S – Plenum Air Slots
	--	--	----	--
	CW – Ceiling-to-Wall	4 – 4" Classic KE – Knife Edge ACT KD – Knife Edge Drywall	48 – 8" Height* 610 – 10" Height*	Blank S – Plenum Air Slots
<b>CORNERS: Specify Indirect Light Cove Corner Item Number</b> Example: AXIDLCC448S – Axiom Indirect Light Cove, Ceiling-to-Ceiling, 8" Classic Light Cove Inside Corner				
<b>AXIDL</b>	--	--	----	--
	CC – Ceiling-to-Ceiling	4 – 4" Classic KE – Knife Edge ACT KD – Knife Edge Drywall	812 – 12" Height** 1014 – 14" Height** 1216 – 16" Height** 1418 – 18" Height** 1620 – 20" Height**	IC – Inside Corner OC – Outside Corner
	--	--	----	--
	CW – Ceiling-to-Wall	4 – 4" Classic KE – Knife Edge ACT KD – Knife Edge Drywall	48 – 8" Height** 610 – 10" Height**	IC – Inside Corner OC – Outside Corner

\* Light Covers are 10' in length

\*\* Light Cove Corners are 12" in length and 12" in width

NOTE: Elevations and shop drawings are required for the manufacturing of this product. Contact Armstrong Customer Service at 1 877 276 7876, select options 1-1-2 for quotation.

### ACCESSORIES

Item No.	Description	Item No.	Description
<b>AXCCLT45</b>	45° T-Bar Connector Twist – For use with Knife Edge Covers	<b>AXTBC</b>	T-Bar Connector Clip – For use with 4" Classic Edge Covers only
<b>AXIDLCWC</b>	Indirect Light Cove Wall Clip – For use with Ceiling-to-Wall Light Covers	<b>AX4SPICE</b>	Axiom Splice Plate
<b>AXBTR</b>	Axiom® Bottom Drywall Trim – For use with 4" Classic Edge Covers only		

### PHYSICAL DATA

**Material**  
Commercial quality 3003 aluminum alloy

**Surface Finish**  
Factory-applied baked polyester paint finish

**Warranty**  
10-Year Limited Warranty; 30-Year System Warranty

**Profile**  
Various options with both Ceiling-to-Wall and Ceiling-to-Ceiling Light Covers in a wide range of sizes with 3/4" horizontal flange.

**Cross Tee/Main Beam Interface**  
Flush fit

**End Detail**  
Splice with screws

**ICC Reports**  
For areas under ICC jurisdiction, see evaluation report numbers ESR-1289 and ESR-1308 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The reports are subject to reexamination, revisions, and possible cancellation.

**Application Considerations**  
Axiom Indirect Light Covers cannot be curved.

LEED® is a registered trademark of the U.S. Green Building Council  
CovePerfekt™ is a trademark of Axis Lighting. Vode® And ZipWave™ are trademarks of Vode Lighting LLC. Compose is a trademark of i2Systems. Litecontrol is owned by Hubbell Lighting, Inc. Declare™ is a service mark of The International Living Future Institute. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

TechLine / 1 877 276-7876  
armstrongceilings.com/lighting

BPCS-5065-718



**new** LIGHTING SOLUTIONS  
Light Covers – Indirect Light Ledge

AXIOM® Trim  
straight

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems

**50% RECYCLED CONTENT**  
ALUMINUM

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®	energy management	construction waste to recycle	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	low-based materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------------	--------------------	------------------------	-----	------------------------------------	---------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



Axiom® Indirect Light Ledge

Axiom® Indirect Light Ledge offers a low profile light ledge cove with predictable lighting performance, which easily integrates with a 5/8" drywall board.

**KEY SELECTION ATTRIBUTES**

- Axiom® Indirect Light Ledge offers predictable lighting performance
- Axiom Indirect Light Ledge is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- With our lighting partners, this pre-engineered solution offers a variety of options with both Ceiling-to-Wall and Ceiling-to-Ceiling light ledges
- 10-Year Limited Warranty, 30-Year System Warranty

**LIGHTING FIXTURES**

Compatible with:  
Axis Lighting, Litecontrol,  
and Vode® Lighting.



**COLOR**



**VISUAL SELECTION**

**STRAIGHT:** Specify Indirect Light Ledge Item Number  
Example: AXILLCWKD – Axiom Light Ledge, Ceiling-to-Wall, Knife Edge

Light Cove Type ♦	Mounting	Edge Detail
AXILL	--	--
	CC – Ceiling-to-Ceiling	2D – 2" Classic Edge Drywall
	CW – Ceiling-to-Wall	KD – Knife Edge Drywall

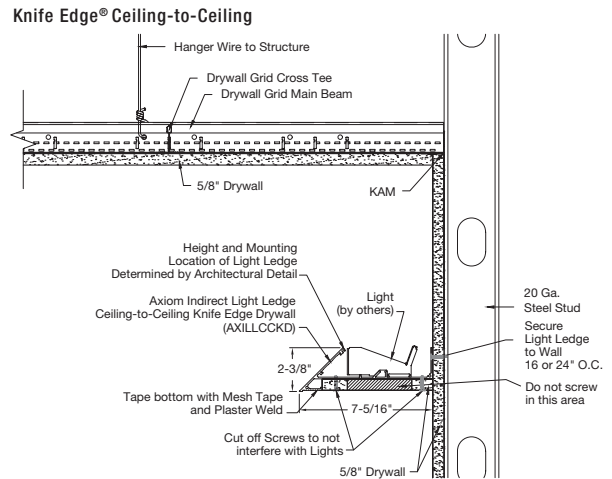
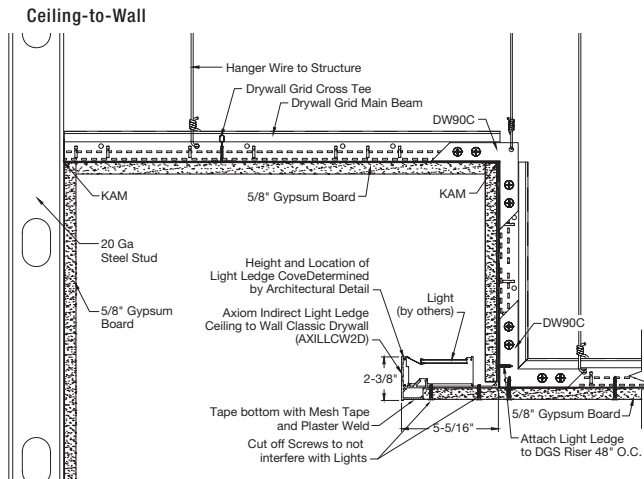
♦ Light Ledges are 10' lengths

**CORNERS:** Specify Field Light Cove Corner Item Number  
**(NOTE – only use this section if you need corners or end returns on your project)**  
Example: AXILLCWKDIC – Axiom Light Ledge, Ceiling-to-Wall, Knife Edge, Inside Corner

Light Cove Type*	Mounting	Edge Detail	Options
AXILL	--	--	--
	CC – Ceiling-to-Ceiling	2D – 2" Classic Edge Drywall	IC – Inside Corner
	CW – Ceiling-to-Wall	KD – Knife Edge Drywall	OC – Outside Corner

\* Light Ledge corners are 12" in length and 12" in width

**MOUNTING**



**PHYSICAL DATA**

**Material**  
Commercial quality 3003 aluminum alloy

**Surface Finish**  
Factory-applied baked polyester paint finish

**Warranty**  
10-Year Limited Warranty; 30-Year System Warranty

**Profile**  
Various options with both Ceiling-to-Wall and Ceiling-to-Ceiling Light Ledges in a wide range of sizes with 3/4" horizontal flange.

**Cross Tee/Main Beam Interface**  
Flush fit

**End Detail**  
Splice with screws

**ICC Reports**  
For areas under ICC jurisdiction, see evaluation report numbers ESR-1289 and ESR-1308 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The reports are subject to reexamination, revisions, and possible cancellation.

TechLine / 1 877 276-7876  
[armstrongceilings.com/lightledge](http://armstrongceilings.com/lightledge)

BPCS-5836-718

LEED® is a registered trademark of the U.S. Green Building Council  
CovePerfect™ is a trademark of Axis Lighting. Vode® and ZipWave™ are trademarks of Vode Lighting LLC. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America



# SHADE POCKETS AXIOM® Building Perimeter System



Axiom® Building Perimeter System is an extruded aluminum trim solution that provides an aesthetic platform to integrate functions such as drapery pockets, air distribution and changes in ceiling elevation. This system allows for an integrated transition between the interior of a building's perimeter and the ceiling plane.

### KEY SELECTION ATTRIBUTES

- Pre-engineered 2- and 3-sided pockets allow for acoustical and drywall transitions and are compatible with Armstrong suspension systems
- Axiom® is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 481)
- Seismic perimeter pocket offers 0.875" flange
- Exposed perimeter pocket offering allows for shade concealment in an exposed structure application. Custom colors available
- No pocket detail allows for custom sized pocket integration into the ceiling plane with no visible fasteners.
- Allows for quality control at the perimeter and reduces risk associated with field-fabricated, labor-intensive accommodation of air distribution, window pockets, and ceiling elevation changes at the perimeter of a building

- Replaces the framing, boarding, taping, mudding, sanding and painting commonly used for drywall pockets
- Custom slotting, perforating and cutting available
- 30-year limited warranty

### COLOR



White (WH)

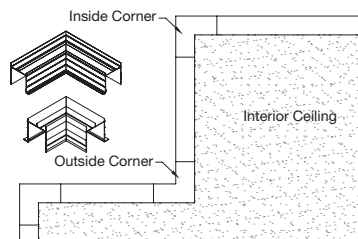


Standard Axiom and custom colors available.

## VISUAL SELECTION

### 3-SIDED PERIMETER POCKETS AND CORNERS

Item No.	Description	Dimensions	Length	Item Number	Description	Dimensions	Length
<b>Acoustical Flange Pockets</b>				<b>Drywall Flange Pockets and Corners</b>			
<b>AXP355</b>	Perimeter Pocket with Acoustical Flange	5 x 5 x 5"	120"	<b>AXP355D</b>	Perimeter Pocket with Drywall Flange	5 x 5 x 5"	120"
<b>AXP3550SC</b>	Perimeter Pocket with Acoustical Flange – Outside Corner	12 x 5 x 12"	12"	<b>AXP355DISC</b>	3-Sided Shade Pocket with Drywall Flange – Inside Corner	12 x 5 x 12"	12"
<b>AXP355ISC</b>	Perimeter Pocket with Acoustical Flange – Inside Corner	12 x 5 x 12"	12"	<b>AXP355DOSC</b>	3-Sided Shade Pocket with Drywall Flange – Outside Corner	12 x 5 x 12"	12"
<b>AXP355MA</b>	Perimeter Pocket with Acoustical Flange for Traditional Framing	5 x 5 x 5"	120"	<b>AXP355MD</b>	Perimeter Pocket with Drywall Flange for Traditional Framing	5 x 5 x 5"	102"
<b>AXP355MA0SC</b>	Perimeter Pocket with Acoustical Flange for Traditional Framing – Outside Corner	12 x 5 x 12"	12"	<b>AXP355MD0SC</b>	Perimeter Pocket with Drywall Flange for Traditional Framing – Outside Corner	12 x 5 x 12"	12"
<b>AXP355MAISC</b>	Perimeter Pocket with Acoustical Flange for Traditional Framing – Inside Corner	12 x 5 x 12"	12"	<b>AXP355MDISC</b>	Perimeter Pocket with Drywall Flange for Traditional Framing – Inside Corner	12 x 5 x 12"	12"





# SHADE POCKETS AXIOM® Building Perimeter System

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems



50% RECYCLED CONTENT  
ALUMINUM

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LEED®	energy management	construction waste to right	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	bio-based materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-----------------------------	--------------------	------------------------	-----	------------------------------------	---------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

## VISUAL SELECTION

VISUAL SELECTION				NO POCKET DETAILS (for use with custom-sized pockets)			
Item No.	Description	Dimensions	Length	Item No.	Description	Dimensions	Length
<b>Exposed Pockets (custom colors available)</b>							
<b>new</b> AXP35434E	Exposed Application Perimeter Pocket with Closure Clip Attachment	5 x 5 x 5"	120"	AXPNP34A	No Pocket 3/4" Acoustical Flange with Closure Clip Attachment	2-11/16" x 3/4"	120"
<b>new</b> AXP355ME	Exposed Application Perimeter Pocket for Traditional Framing	5 x 5 x 5"	120"	AXPNP34NR	No Pocket 3/4" Acoustical flange, no reveal with Closure Clip Attachment	2" x 3/4"	120"
<b>new</b> AXP355ME0SC	Exposed Application Perimeter Pocket for Traditional Framing – Outside Corner	12 x 5 x 12"	12"	AXPNP125A	No Pocket 1-1/4" Acoustical Flange with Closure Clip Attachment	2-11/16" x 1-1/4"	120"
<b>new</b> AXP355MEISC	Exposed Application Perimeter Pocket for Traditional Framing – Inside Corner	12 x 5 x 12"	12"	AXPNP38D	No Pocket Drywall-Taping Flange with 3/8" reveal and Closure Clip Attachment	3-7/16" x 1-3/16"	120"
<b>Seismic Flange Pockets</b>							
AXP355S	Perimeter Pocket with Seismic (0.875") Flange	5 x 5 x 5"	120"	AXPNPD	No Pocket Drywall Taping Flange with Closure Clip Attachment	2-11/16" x 3/4"	120"
AXP355S0SC	Perimeter Pocket with Seismic (0.875") Flange – Outside Corner	12 x 5 x 12"	12"	<b>CONNECTION PERIMETER POCKETS AND CONNECTION ACCESSORIES</b>			
AXP355SISC	Perimeter Pocket with Seismic (0.875") Flange – Inside Corner	12 x 5 x 12"	12"	<b>3-Sided Pocket and Corners</b>			
<b>new</b> AXP355MS	Perimeter Pocket with Seismic (0.875") Flange for Traditional Framing	5 x 5 x 5"	120"	AXP355C	Perimeter Pocket with Connection to Extension/Face Plate Piece	5 x 5 x 5"	120"
<b>new</b> AXP355MS0SC	Perimeter Pocket with Seismic (0.875") Flange for Traditional Framing – Outside Corner	12 x 5 x 12"	12"	AXP355C0SC	Perimeter Pocket with Connection to Extension/Face Plate Piece – Outside Corner	12 x 5 x 12"	12"
<b>new</b> AXP355MSISC	Perimeter Pocket with Seismic (0.875") Flange for Traditional Framing – Inside Corner	12 x 5 x 12"	12"	AXP355CISC	Perimeter Pocket with Connection to Extension/Face Plate Piece – Inside Corner	12 x 5 x 12"	12"
<b>2-Sided Acoustical Flange Pocket (used to organize ceiling cutouts or lighting)</b>							
AXP3552	Perimeter Pocket with Acoustical Flange on two sides	5 x 5 x 5"	120"	<b>2-Sided Pocket and Corners</b>			
<b>2-SIDED PERIMETER POCKETS AND CORNERS</b>							
<b>Acoustical Flange Pockets</b>							
AXP255	Perimeter Pocket with Acoustical Flange	5 x 5 x 5"	120"	AXP255C	Perimeter Pocket with Connection to Extension/Face Plate Piece	5 x 5"	120"
AXP2550SC	Perimeter Pocket with Acoustical Flange – Outside Corner	12 x 5 x 12"	12"	AXP255C0SC	Perimeter Pocket with Connection to Extension/Face Plate Piece – Outside Corner	12 x 5 x 12"	12"
AXP255ISC	Perimeter Pocket with Acoustical Flange – Inside Corner	12 x 5 x 12"	12"	AXP255CISC	Perimeter Pocket with Connection to Extension/Face Plate Piece – Inside Corner	12 x 5 x 12"	12"
AXP236	3" x 6" Perimeter Pocket with Acoustical Flange	3" x 6"	120"				



INTEGRATED CEILING SOLUTIONS

# SHADE POCKETS

## AXIOM® Building Perimeter System

### VISUAL SELECTION

#### CONNECTION PERIMETER POCKETS AND CONNECTION ACCESSORIES (cont'd)

Item No.	Description	Dimensions	Length	Item No.	Description	Dimensions	Length
<b>No Pocket Detail</b>							
AXPNPFPA	No Pocket with Face Plate and Closure Clip Attachment	3-11/16" x 1/8"	120"	AXPDFP4DT	4" Axiom Perimeter Face Plate with Drywall Flange – Unslotted	4" Unslotted	120"
<b>Extensions (custom slotting, perforating and cutouts available)</b>							
Pre-engineered 10' (120") perimeter extensions integrate with perimeter pockets to create larger pockets and higher ceiling elevations.							
AXPEP4	4" Axiom Perimeter Extension	4"	120"	AXPDFP4DTSLA	4" Axiom Perimeter Face Plate with Drywall Flange – 2-Slot Pattern	4" Slotted 3/4" x 23"	120"
AXPEP6	6" Axiom Perimeter Extension	6"	120"	AXPDFP4DTSLB	4" Axiom Perimeter Face Plate with Drywall Flange – 1-Slot Pattern	4" Slotted 2-3/4" x 23"	120"
AXPEP8	8" Axiom Perimeter Extension	8"	120"	AXPDFP7DT	7" Axiom Perimeter Face Plate with Drywall Flange – Unslotted	7" Unslotted	120"
AXPEP4H	4" Axiom Perimeter Extension – Hook on Both Sides	4"	120"	AXPDFP7DTSLA	7" Axiom Perimeter Face Plate with Drywall Flange – 2-Slot Pattern	7" Slotted 3/4" x 23"	120"
AXPEPS6	6" Seismic Perimeter Extension with 0.875" Flange	6"	120"	AXPDFP7DTSLB	7" Axiom Perimeter Face Plate with Drywall Flange – 1-Slot Pattern	7" Slotted 2-3/4" x 23"	120"
<b>Face Plates (custom slotting, perforating, and cutouts available)</b>							
Pre-engineered 10' (120") extruded aluminum face plates integrate with perimeter pockets and can be slotted to allow for air distribution along the perimeter of a space.							
AXPDFP4	4" Axiom Perimeter Face Plate with Acoustical Flange – Unslotted	4" Unslotted	120"	<b>PERIMETER POCKET ACCESSORIES</b>			
AXPDFP4SLA	4" Axiom Perimeter Face Plate with Acoustical Flange – 2-Slot Pattern	4" Slotted 3/4" x 23"	120"	<b>Closure Clips</b>			
AXPDFP4SLB	4" Axiom Perimeter Face Plate with Acoustical Flange – 1-Slot Pattern	4" Slotted 2-3/4" x 23"	120"	Aluminum 10' (120") closure clip provides concealment of the perimeter pocket should a shade or blind be installed.			
AXPDFP7	7" Axiom Perimeter Face Plate with Acoustical Flange – Unslotted	7" Unslotted	120"	AXPCC2	2" Axiom Building Perimeter Closure Clip	—	120"
AXPDFP7SLA	7" Axiom Perimeter Face Plate with Acoustical Flange – 2-Slot Pattern	7" Slotted 3/4" x 23"	120"	AXPCC3	3" Axiom Building Perimeter Closure Clip	—	120"
AXPDFP7SLB	7" Axiom Perimeter Face Plate with Acoustical Flange – 1-Slot Pattern	7" Slotted 2-3/4" x 23"	120"	<b>End Caps</b>			
AXPDFPS7	7" Axiom Seismic Perimeter Face Plate with 0.875" Flange – Unslotted	7" Unslotted	120"	Provides a capping at the end of a perimeter pocket.			
AXPDFPS7LA	7" Axiom Seismic Perimeter Face Plate with 0.875" Flange – 2-Slot Pattern	7" Slotted 3/4" x 23"	120"	AXCPCI	3-Sided Axiom Building Perimeter End Cap (Compatible with AXP355, AXP355C, AXP355S, AXP3552)	—	—
AXPDFPS7LB	7" Axiom Seismic Perimeter Face Plate with 0.875" Flange – 1-Slot Pattern	7" Slotted 2-3/4" x 23"	120"	AXCPCIV	2-Sided Axiom Building Perimeter End Cap (Compatible with AXP255, AXP255C)	—	—
<b>Seismic Accessories</b>							
BERCAXT Axiom Beam End Retaining Clip for Seismic Applications							
AXSA75 Axiom Adapter Clip with 0.75" Flange for seismic applications attaches to standard pocket, extension, and face plate flanges to meet seismic certifications.							

INTEGRATED CEILING SOLUTIONS

# SHADE POCKETS AXIOM® Building Perimeter System

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

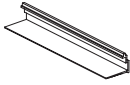
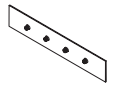


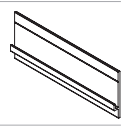


**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems

50%<sup>ALUMINUM</sup> RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie

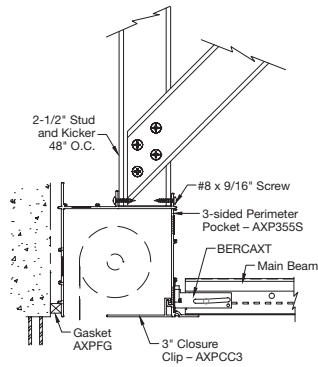
LEED®	energy management	construction waste to right	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	bio-based materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
▲ LOCATION DEPENDENT													

## VISUAL SELECTION

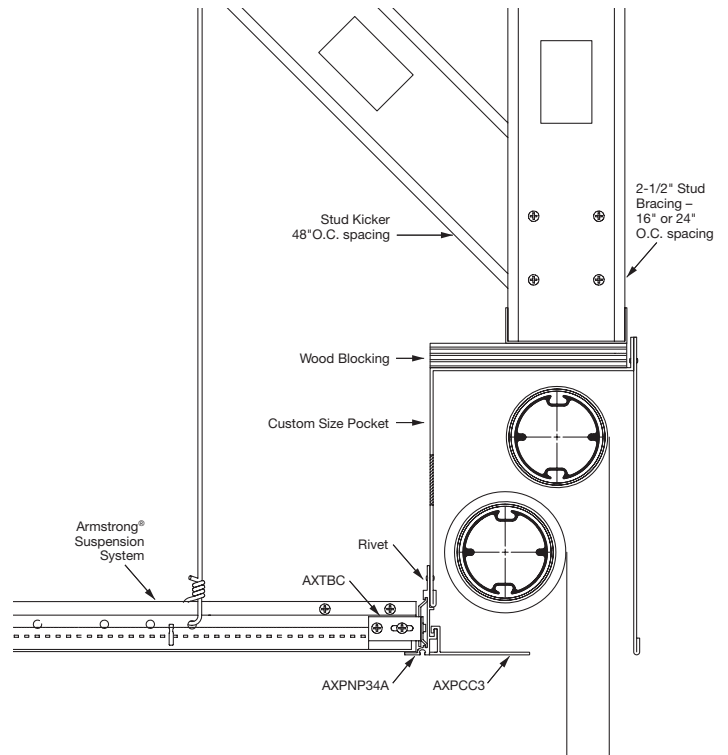
Item No.	Description	Dimensions	Length		Item No.	Description	Dimensions	Length	
<b>Installation Accessories</b>									
<b>AXBTSTR</b>	Axiom® Bottom Drywall Trim for 5/8" Drywall	120 x 1-1/8 x 27/32"	120"		<b>AX4SPLICE</b>	Axiom Splice Plate. Provides positive lock between abutting pockets.	—	—	
<b>AXPWC</b>	Axiom Wall Clip with Hook For Face Plate	—	120"		<b>AXPFG</b>	Foam Gasketing. Used between perimeter pocket piece and exterior window or exterior wall.	—	25' Roll	
<b>AXPWCCP</b>	Axiom Wall Clip with Hook For Closure Clip Attachment	—	120"		<b>AXPSPLINE</b>	Axiom Building Perimeter Interlocking Spline for connection between perimeter pocket and extension or face plate piece	—	120"	
<b>AXTBC</b>	Axiom T-Bar Connector Clip	—	—						

Axiom customer service is available to help you create custom pockets, slot designs, perforations, and cutouts to meet your project needs: 800 840-8521

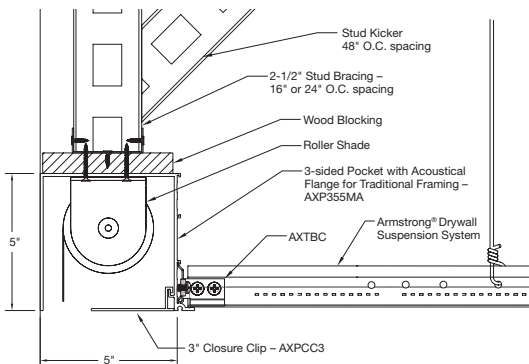
### Perimeter Pocket with Seismic Flange



### Custom Double Shade Pocket with No Pocket Detail



### Perimeter Pocket with Acoustical Flange for Traditional Framing



## PHYSICAL DATA

**Material**  
Extruded aluminum

**Surface Finish**  
Factory-applied baked polyester paint finish. The areas of the 3-sided perimeter pocket, that will be visible once the shade and closure clip are in place, have full paint coverage. The exposed pockets have complete paint coverage.



INTEGRATED CEILING SOLUTIONS



# SHADE POCKETS

## AXIOM® Building Perimeter

Compatible with Lutron®  
Shade Pocket



Axiom® Lutron® – Compatible Shade Pockets are a pre-engineered 10' extruded aluminum pocket that creates the transition between the interior of a building's perimeter and the ceiling plane. These shade pockets can integrate Lutron motorized and manual shades and have the ability to tie in to acoustical or drywall systems without any visible fasteners.

### KEY SELECTION ATTRIBUTES

- Allows for quality control at the perimeter and reduces risk associated with field-fabricated, labor-intensive accommodation of air distribution, window pockets, and ceiling elevation changes at the perimeter of a building
- Axiom® is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 481)
- Exposed perimeter pocket offering allows for shade concealment in an exposed structure application. Custom colors available.
- Lutron motorized shading system is compatible with AXP355L, AXP355LE, AXP355LC, AXP355LS
- Lutron manual shading system is compatible with AXP355MA, AXP355MD, AXP355MS, AXP355ME, AXP355D
- Replaces the framing, boarding, taping, mudding, sanding and painting commonly used for drywall pockets
- Code-compliant seismic product offering
- Armstrong 10-Year Limited Warranty, 30-year limited warranty

### COLOR



White (WH)



Standard Axiom and custom colors available.

### INTEGRATED PARTNER



Lutron Compatible Shade Pockets

### VISUAL SELECTION

#### MANUAL SHADE POCKETS – For attachment with 2-1/2" studs

Item No.	Description	Dimensions (Inches)	Length
<b>Acoustical Flange Shade Pocket and End Caps</b>			
<b>AXP355L</b>	3-Sided Lutron Compatible Shade Pocket with Acoustical Flange	5 x 5 x 5"	120"
<b>AXP355LECR</b>	Lutron End Cap – Right	5 x 5"	–
<b>AXP355LECL</b>	Lutron End Cap – Left	5 x 5"	–
<b>Seismic Flange Shade Pocket and End Caps</b>			
<b>AXP355LS</b>	3-Sided Lutron Compatible Shade Pocket with Seismic Flange	5 x 5 x 5"	120"
<b>AXP355LSECR</b>	Lutron Seismic End Cap – Right	5 x 5"	–
<b>AXP355LSECL</b>	Lutron Seismic End Cap – Left	5 x 5"	–

Item No.	Description	Dimensions (Inches)	Length
<b>Drywall Flange Shade Pocket, End Cap, and Corners</b>			
<b>AXP355D</b>	3-Sided Shade Pocket with Drywall Flange	5 x 5 x 5"	120"
<b>AXP355DISC</b>	3-Sided Shade Pocket with Drywall Flange – Inside Corner	12 x 5 x 12"	12"
<b>AXP355DOSC</b>	3-Sided Shade Pocket with Drywall Flange – Outside Corner	12 x 5 x 12"	12"
<b>AXP355DEC</b>	3-Sided End Cap for Drywall Flange Pocket	5 x 5"	–
<b>Connection Perimeter Pockets and Connection Accessories</b>			
<b>AXP355LC</b>	3-Sided Lutron Compatible Shade Pocket with Connection to Extension/Face Plate Piece	5 x 5 x 5"	120"
<b>AXP355LEEC</b>	Lutron for AXP355LE and AXP355LC End Cap	5 x 5"	120"

#### Extensions (custom slotting, perforating and cutouts available)

Pre-engineered 10' (120") perimeter extensions integrate with perimeter pockets to create larger pockets and higher ceiling elevations.

#### Connection Perimeter Pockets and Connection Accessories

Pre-engineered 10' (120") extruded aluminum face plates integrate with perimeter pockets and can be slotted to allow for air distribution along the perimeter of a space.



# SHADE POCKETS

## AXIOM® Building Perimeter Compatible with Lutron® Shade Pocket

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant



SUSTAIN<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

50%<sup>ALUMINUM</sup> RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	bio-based materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	---------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

### VISUAL SELECTION

#### MANUAL SHADE POCKETS – For Traditional Framing

Item No.	Description	Dimensions (Inches)	Length
<b>Acoustical Flange Pockets and Corners</b>			
AXP355MA	Perimeter Pocket with Acoustical Flange	5 x 5 x 5"	120"
AXP355MA0SC	Perimeter Pocket with Acoustical Flange – Outside Corner	12 x 5 x 12"	12"
AXP355MAISC	Perimeter Pocket with Acoustical Flange – Inside Corner	12 x 5 x 12"	12"
<b>Drywall Flange Pockets and Corners</b>			
AXP355MD	Perimeter Pocket with Drywall Flange	5 x 5 x 5"	120"
AXP355MD0SC	Perimeter Pocket with Drywall Flange – Outside Corner	12 x 5 x 12"	12"
AXP355MDISC	Perimeter Pocket with Drywall Flange – Inside Corner	12 x 5 x 12"	12"
<b>Exposed Pockets and Corners (custom colors available)</b>			
AXP355ME	Exposed Application Perimeter Pocket	5 x 5 x 5"	120"
AXP355ME0SC	Exposed Application Perimeter Pocket – Outside Corner	12 x 5 x 12"	12"
AXP355MEISC	Exposed Application Perimeter Pocket – Inside Corner	12 x 5 x 12"	12"
<b>Seismic Flange Pockets and Corners</b>			
AXP355MS	Perimeter Pocket with Seismic (0.875") Flange	5 x 5 x 5"	120"
AXP355MS0SC	Perimeter Pocket with Seismic (0.875") Flange – Outside Corner	12 x 5 x 12"	12"
AXP355MSISC	Perimeter Pocket with Seismic (0.875") Flange – Inside Corner	12 x 5 x 12"	12"
<b>End Cap</b>			
AXP355MEC	Perimeter Pocket End Cap for Traditional Framing Pockets (AXP355MA, AXP355MD, AXP355ME, AXP355MS)	5" x 5"	–

#### MOTORIZED SHADE POCKETS – For Traditional Framing

Item No.	Description	Dimensions (Inches)	Length
<b>Exposed Shade Pocket and End Caps</b>			
AXP355LE	3-Sided Exposed Lutron Compatible Shade Pocket	5 x 5 x 5"	120"
AXP355LE_ _*	3-Sided Exposed Lutron Compatible Shade Pocket, colors	5 x 5 x 5"	120"
AXP355LEEC	Lutron for AXP355LE and AXP355LC End Cap	5" x 5"	–
AXP355LEEC_ _*	Lutron Exposed End Cap, colors	5" x 5"	–
<b>ACCESSORIES</b>			
<b>Closure Clip</b>			
AXPCC3L	3" Shade Closure Clip	3"	120"
AXPCC3L_ _*	3" Shade Closure Clip, colors	3"	120"
<b>Installation Accessories</b>			
AXPWCCP2	Axiom Wall Clip with Hook for Closure Clip Attachment	2" x 1/2"	2"
BERCAXT	Axiom Beam End Retaining Clip for Seismic Applications	–	–
AXTBC	Axiom T-Bar Connector Clip	–	–
AX4SPLICE	Axiom Splice Plate with Setscrews Provides positive lock between abutting pockets	–	8"
AXPSPLINE	Axiom Building Perimeter Interlocking Spline for connection between perimeter pocket and extension or face plate piece	–	120"

\* Add the 2-letter color suffix to the item number when specifying or ordering (Example: AXP355LE B L, 3-Sided Exposed Lutron Compatible Shade Pocket in Black)

### PHYSICAL DATA

**Material**  
Extruded aluminum

**Surface Finish**  
Factory-applied baked polyester paint finish. The areas of the 3-sided perimeter pockets that will be visible once the shade and closure clip are in place will have full paint coverage. The rest of the interior of the pocket will have light paint coverage. The Exposed pockets will have complete paint coverage.

Please contact your local Armstrong representative.

Lutron, Shading Customer Service  
Phone: 800 446-1503  
Email: shadingcustsvc@lutron.com  
www.performanceshadingadvisor.com

TechLine / 1 877 276-7876  
armstrongceilings.com/lutron

BPCS-5159-718

Lutron, and Sivoia® are registered trademarks of Lutron Electronics Co., Inc.  
LEED® is a registered trademark of the U.S. Green Building Council  
All other trademarks used herein are the property of AWI Licensing LLC  
and/or its affiliates © 2018 AWI Licensing LLC  
Printed in the United States of America

**Armstrong**  
CEILING & WALL SOLUTIONS

429



INTEGRATED CEILING SOLUTIONS

# INTEGRATED SOLUTION PARTNERS

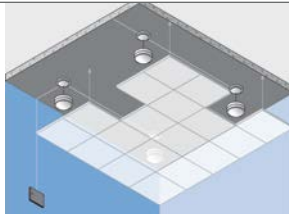
## Predictable Performance

These partnerships provide pre-engineered, pre-fitted fixtures and components that integrate, work with, or complement Armstrong Ceiling Systems. Our mission is to make it easier for architect and designers, who are being asked to design integrated ceilings increasingly, to find and specify compatible high-performance components for their ceiling layouts with confidence.

[armstrongceilings.com/partners](http://armstrongceilings.com/partners)

**Armstrong**<sup>®</sup>  
CEILING & WALL SOLUTIONS

SOUND MASKING



SPRINKLER CONNECTIONS



AIR DIFFUSERS



SHADES



COOLING



LIGHTING & FIXTURES



FOCAL POINT



## COMMON CONDITIONS

Window & Shade Pockets

Transitions

Soffits

Light Coves & Pockets

Flat & Curved Drywall

Interior Glass Partitions

Corridors

# DETAILS MAKE THE DIFFERENCE

## Improve Finished Aesthetics with Pre-Engineered Solutions

Armstrong® ceiling solutions are pre-engineered with attention to detail to ensure you control the finished aesthetic of the ceiling and achieve your design intent.

On every project you will encounter these common conditions. The following pages feature Armstrong® pre-engineered integrated solutions for these common conditions.

We have compared our pre-engineered solutions to traditional construction methods, and present the benefits that support their use. By utilizing these Armstrong® integration solutions, you will be able to specify and maintain the eye-candy designs of your vision, while solving everyday challenges.



LEARN MORE:  
[armstrongceilings.com/commonconditions](http://armstrongceilings.com/commonconditions)

**Armstrong®**  
CEILING & WALL SOLUTIONS



# COMMON CONDITION:

## Window & Shade Pockets

When it comes to shade pockets or the perimeter of an application, trying to accomplish the transition between the interior of a building's perimeter and the ceiling plane can be challenging.



Window and shade pockets

### ARMSTRONG® SOLUTION BENEFITS:

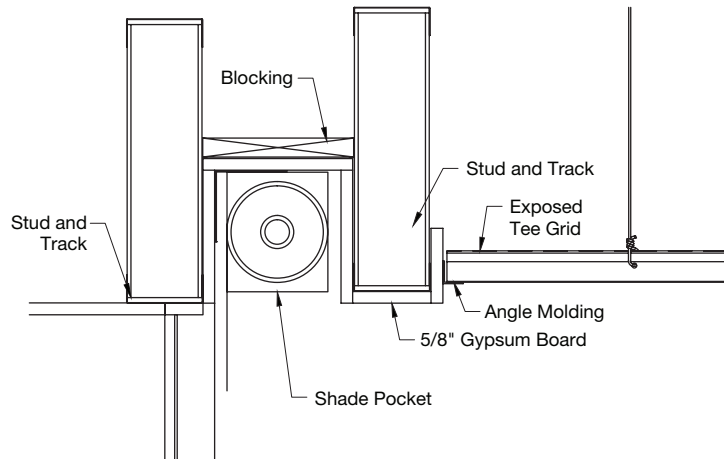
- Regain aesthetic control at the building perimeter
- Quality control at the perimeter, reduce time required to detail and specify the integration of perimeter solutions
- Reduce risk associated with field fabricated, labor-intensive accommodation of air distribution, window pockets, and ceiling elevation changes at the perimeter of a building

### ARMSTRONG® SOLUTION FEATURES:

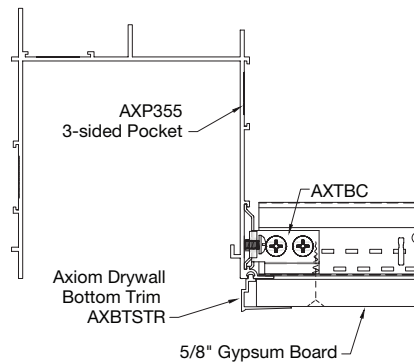
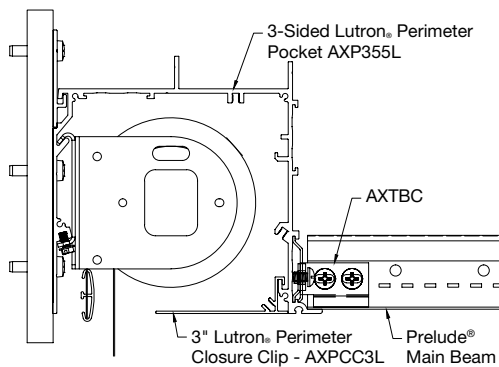
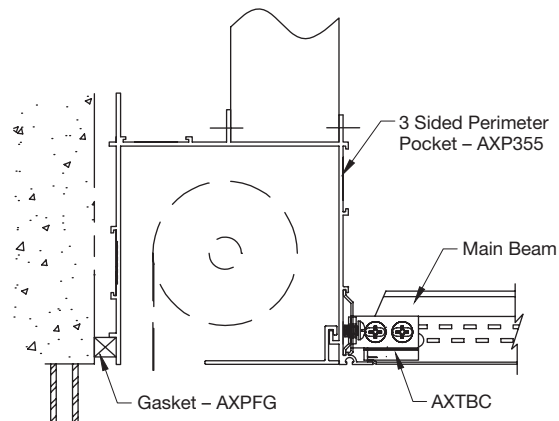
- Work with drywall and acoustical suspension systems like no other pocket can for perfect fit and finish
- Integrate drapery pockets, window shades, air distribution, and changes in ceiling elevation
- Installs 12 times faster than drywall pockets and twice as fast as traditional pockets

Refer to Pgs. 424-427 for Axiom® Shade Pocket details

### TRADITIONAL Shade Pocket



### ARMSTRONG® Axiom® Building Perimeter Shade Pockets



# COMMON CONDITION:

## Flush Transitions

Transitions are used to join two ceiling planes at the same height.



### ARMSTRONG® SOLUTION BENEFITS:

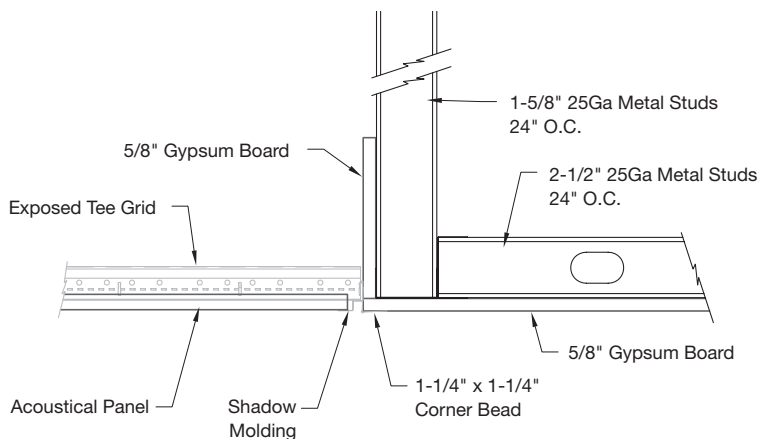
- Extruded aluminum trim provides more crisp-edge detailing compared to conventional roll-formed steel systems
- Acoustical-to-drywall transitions are available straight and curved for perfect fit and finish every time
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today

### ARMSTRONG® SOLUTION FEATURES:

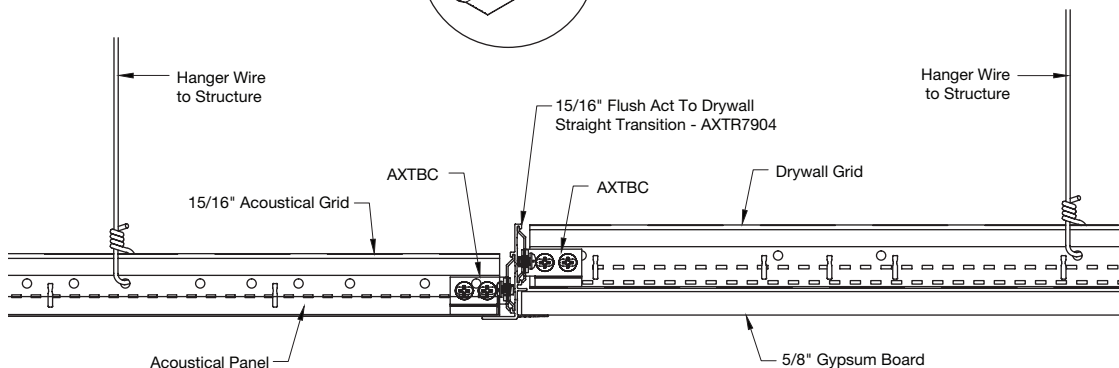
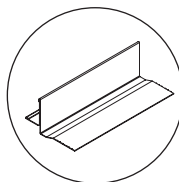
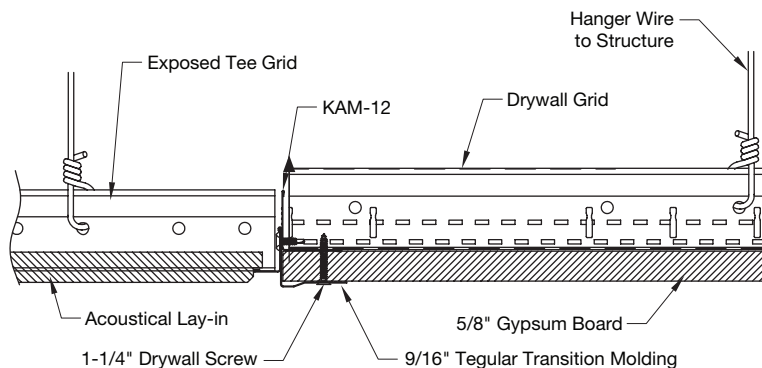
- Accommodates acoustical-to-acoustical, acoustical-to-drywall, drywall-to-drywall, and drywall-to-acoustical
- Available in extruded aluminum and stainless steel transition options. Extruded aluminum can be straight or curved.
- Compatible with Armstrong® suspension systems and Drywall Grid Systems

Refer to Pgs. 491-492 for Axiom® Transition details

### TRADITIONAL Flush Transition



### ARMSTRONG® Flush Transitions



# COMMON CONDITION: 1" to 10" Straight or Curved Transitions (Elevation Change)

Transitions are used in place of a bulkheads when there is a height transition less than 10".



Straight Transition

## ARMSTRONG® SOLUTION BENEFITS:

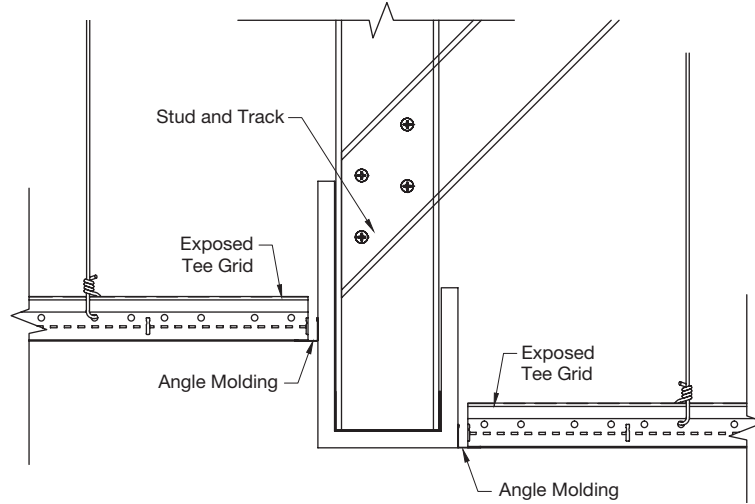
- Creates a smooth transition between drywall and suspended ceilings (mineral fiber, metal, or wood)
- Extruded aluminum trim provides more crisp-edge detailing compared to conventional roll-formed steel systems
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- Acoustical-to-Drywall Transitions are available straight and curved for perfect fit and finish every time

## ARMSTRONG® SOLUTION FEATURES:

- Vector® panels are available straight only for use with full-size Vector panels (field cutting Vector panels can be avoided)
- Elevation change accommodates acoustical-to-acoustical, acoustical-to-drywall, drywall-to-acoustical, drywall-to-drywall height transitions of 1", 2", 4", 6", 8", and 10"
- Compatible with Armstrong® suspension systems and Drywall Grid Systems

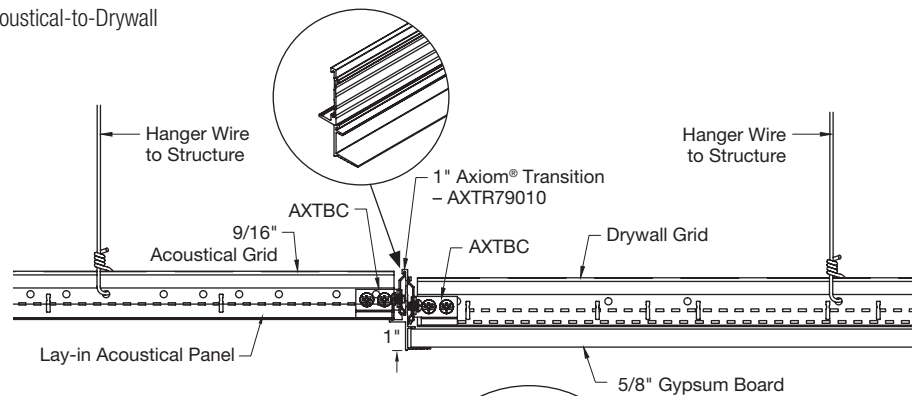
Refer to Pgs. 491-492 for Axiom® Transition details

## TRADITIONAL Transition (Elevation Change)

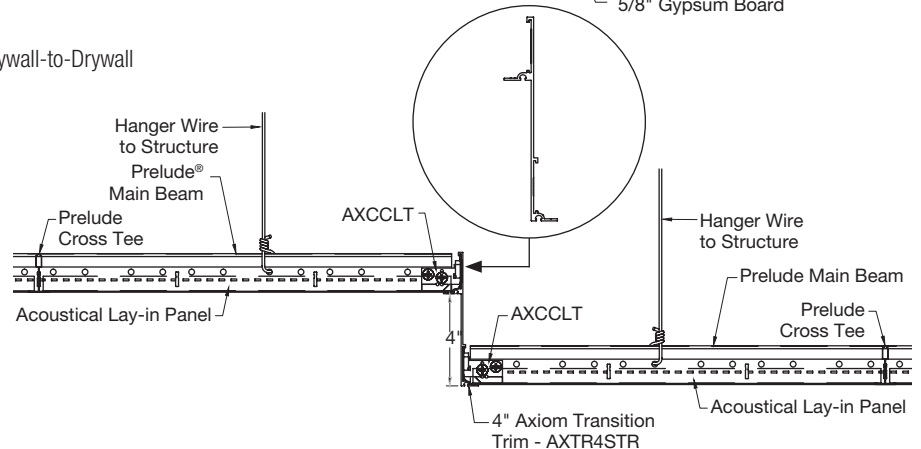


## ARMSTRONG® Straight or Curved Transitions (1" to 10" Elevation Change)

### Acoustical-to-Drywall



### Drywall-to-Drywall



COMMON CONDITIONS

## COMMON CONDITION: F-Molding Transitions Greater Than 10"

F-molding transitions are used for drywall height transitions greater than 10" and can be 48" without dropping a stud.



### ARMSTRONG® SOLUTIONS BENEFITS:

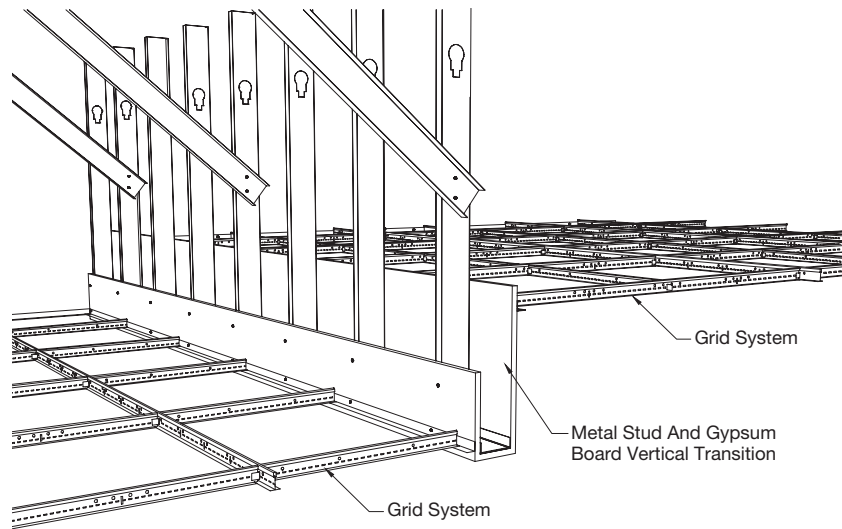
- Rolled-formed steel with integrated mud flange – saving time, material, and labor on vertical transitions
- Acoustical-to-drywall transitions are available straight and curved for perfect fit and finish every time
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today

### ARMSTRONG® SOLUTIONS FEATURES:

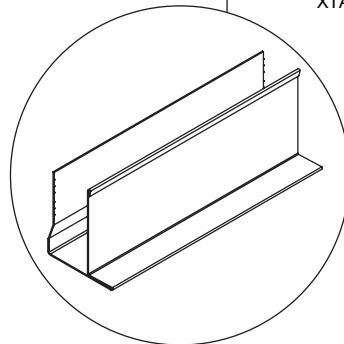
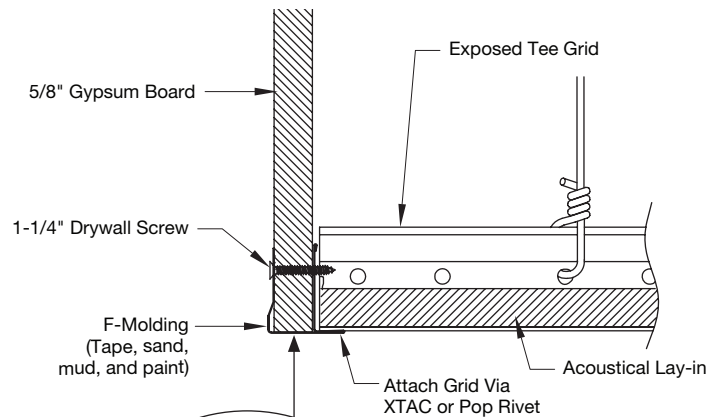
- Accommodates acoustical-to-acoustical, acoustical-to-drywall, drywall-to-drywall, and drywall-to-acoustical
- Height transitions of greater than 10" with F-molding
- Compatible with Armstrong® suspension systems and Drywall Grid Systems

Refer to Pgs. 491-492 for Axiom® Transition Molding details

### TRADITIONAL Upturn Transition



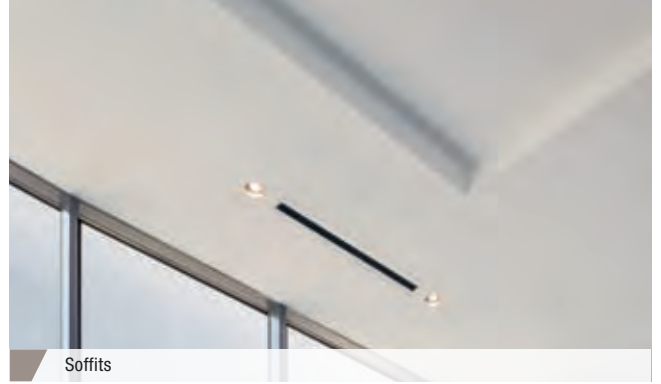
### ARMSTRONG® Greater Than 10" F-Molding Transitions



# COMMON CONDITION:

## Soffits

Traditional methods for installation of soffits leave many finishing decisions to be handled on site, making it hard to assure the controls are in place to maintain design intent.



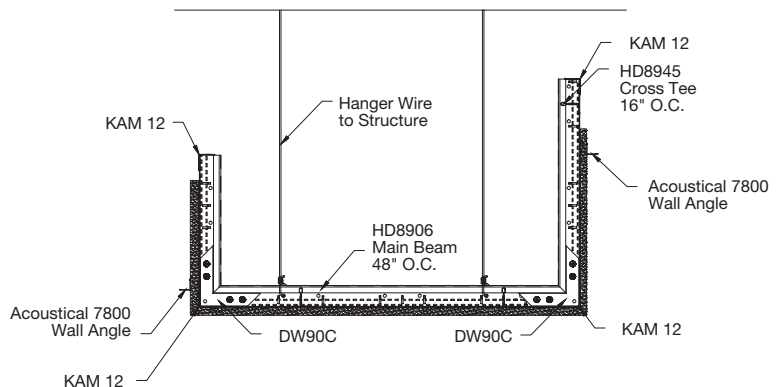
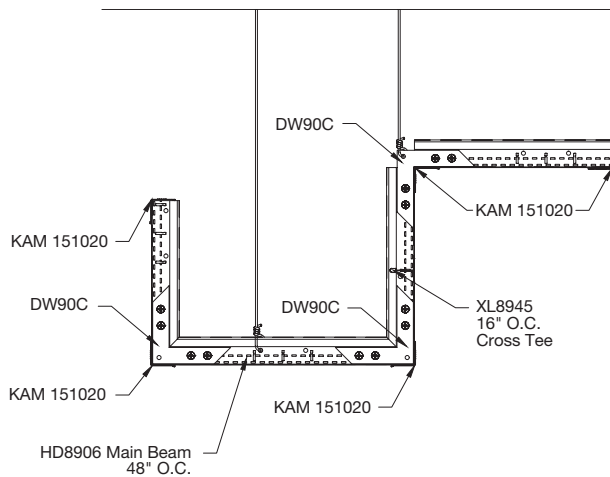
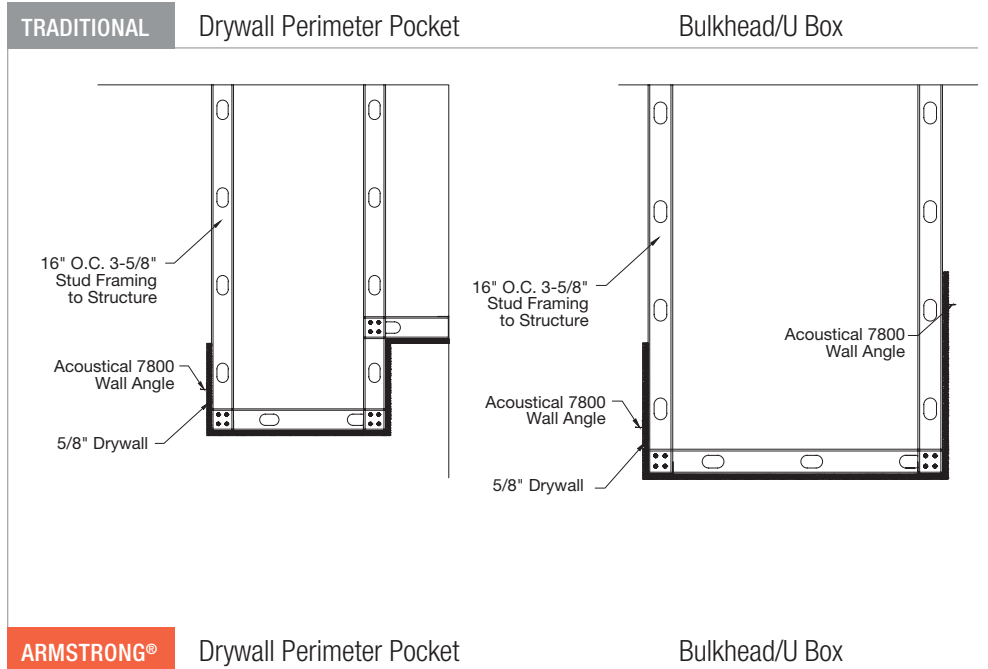
### ARMSTRONG® SOLUTIONS BENEFITS:

- Pre-engineered systems are designed so you know what the details of finished installations will look like long before the installation takes place
- Systems are tested for fit and finish, and engineered to be code compliant
- Reduce the risk of on-site solutions because fit and finish are controlled and reliable

### ARMSTRONG® SOLUTIONS FEATURES:

- QuikStix™ Soffit Drywall Framing System guarantees a perfectly crafted 15, 30, 45, 60, or 90-degree angle every time
- Drywall grid is manufactured with additional rout locations to accommodate F-Type Light Fixtures, access panels, and air diffusers
- Engineered to give you design control, while providing a green installation by reducing steel up to 15%

Refer to Pgs. 497-498 for Armstrong® Drywall Grid System details



# COMMON CONDITION:

## Direct Light Covers

Traditional track and stud drywall installation of light covers into the ceiling plane or at the perimeter can create numerous hurdles in your design intent by not providing predictable performance or perfect integration.



Direct Light Cove

### ARMSTRONG® SOLUTIONS BENEFITS:

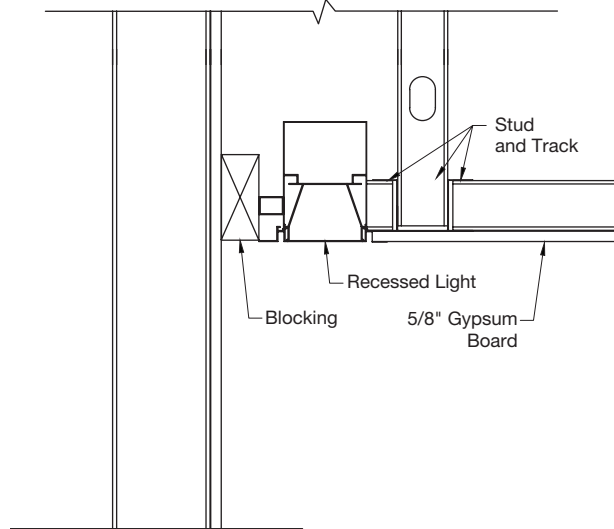
- Fully concealed integrated design installs with all Armstrong® acoustical and drywall suspension systems
- Low-profile design with plug-and-play lighting for shallow plenum corridors or entryways
- Integrated lighting partners make the complete solution easy to specify and maintain lighting symmetry

### ARMSTRONG® SOLUTIONS FEATURES:

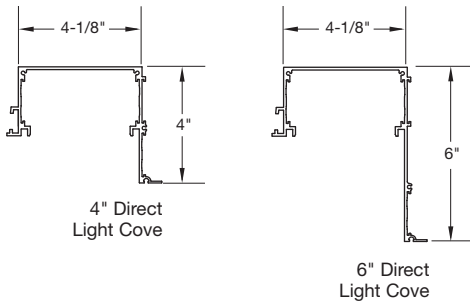
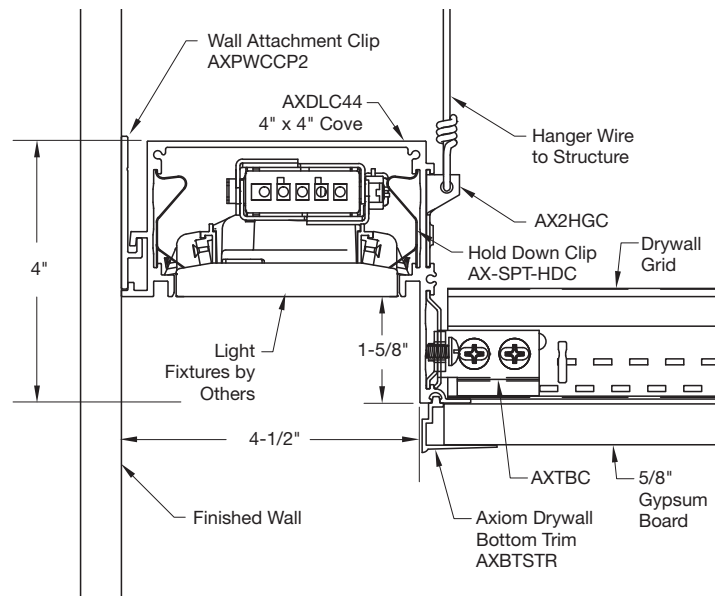
- Pre-engineered, extruded aluminum light cove profiles with integrated XAL® LENO® and Axis Click light fixtures
- 4" x 4" and 4" x 6" Direct Light Cove options available
- Installs 90% faster with just 10% of the labor of traditional light covers

Refer to Pg. 420 for Axiom® Direct Light Cove details

### TRADITIONAL Direct Light Cove



### ARMSTRONG® Axiom® Direct Light Cove



# COMMON CONDITION: Indirect & Indirect Field Light Covers

Traditional track and stud drywall installation of light covers into the ceiling plane or at the perimeter can create numerous hurdles in your design intent by not providing predictable performance or perfect integration.



## ARMSTRONG® SOLUTIONS BENEFITS:

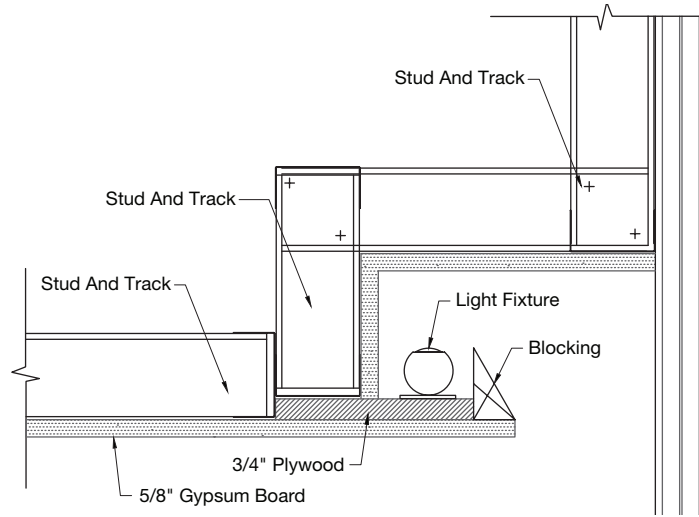
- Offer predictable lighting performance and perfect integration with all Armstrong® suspension systems
- Integrated lighting partners make the complete solution easy to specify and maintain lighting symmetry

## ARMSTRONG® SOLUTIONS FEATURES:

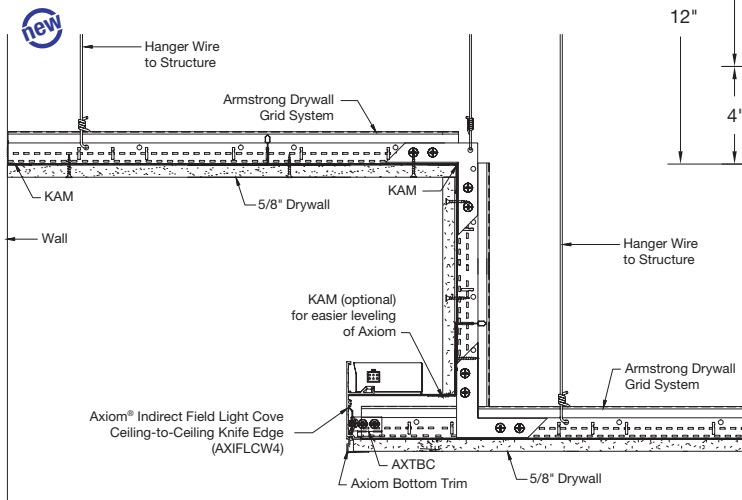
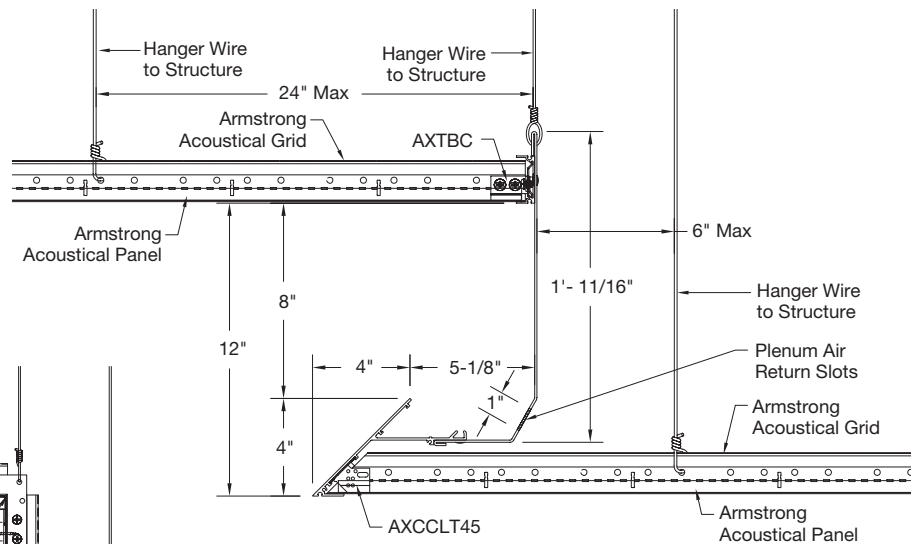
- Variety of options with both Ceiling-to-Wall and Ceiling-to-Ceiling light covers and sizes
- Knife Edge® profile brings acoustical tile out to the edge of the cove
- Installs 90% faster with just 10% of the labor of traditional light covers

Refer to Pgs. 421-422 for Axiom® Indirect Light Cove details

### TRADITIONAL Indirect Light Cove



### ARMSTRONG® Axiom® Indirect and Indirect Field Light Covers



## COMMON CONDITION: Flat & Curved Drywall

Traditional drywall installation methods leave many finishing decisions to be handled on-site, making it hard to assure the controls are in place to maintain design intent, especially with curved details.



Curved Drywall Ceiling

### ARMSTRONG® SOLUTIONS BENEFITS:

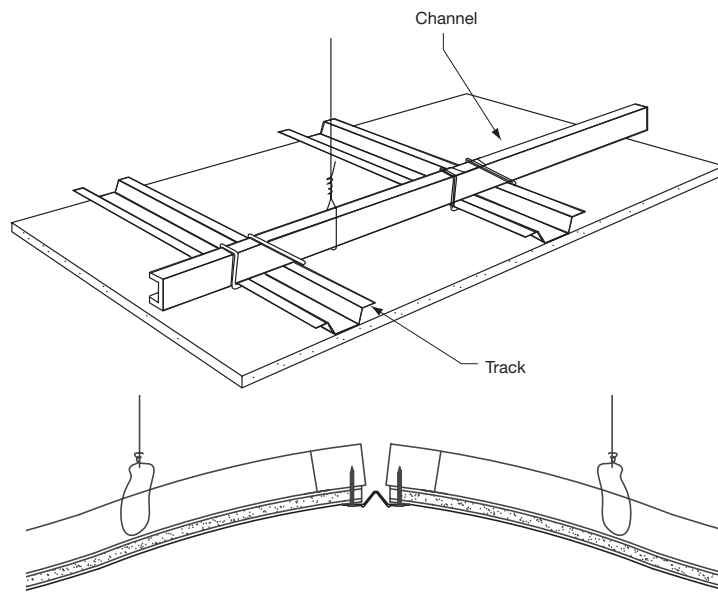
- Ultimate control of the curve – expand your design beyond traditional pre-selected or pre-determined radii
- Simplify the design of corridors, small-room configurations, restrooms, and storage closets
- Engineered to use less steel than traditional drywall ceiling framing methods

### ARMSTRONG® SOLUTIONS FEATURES:

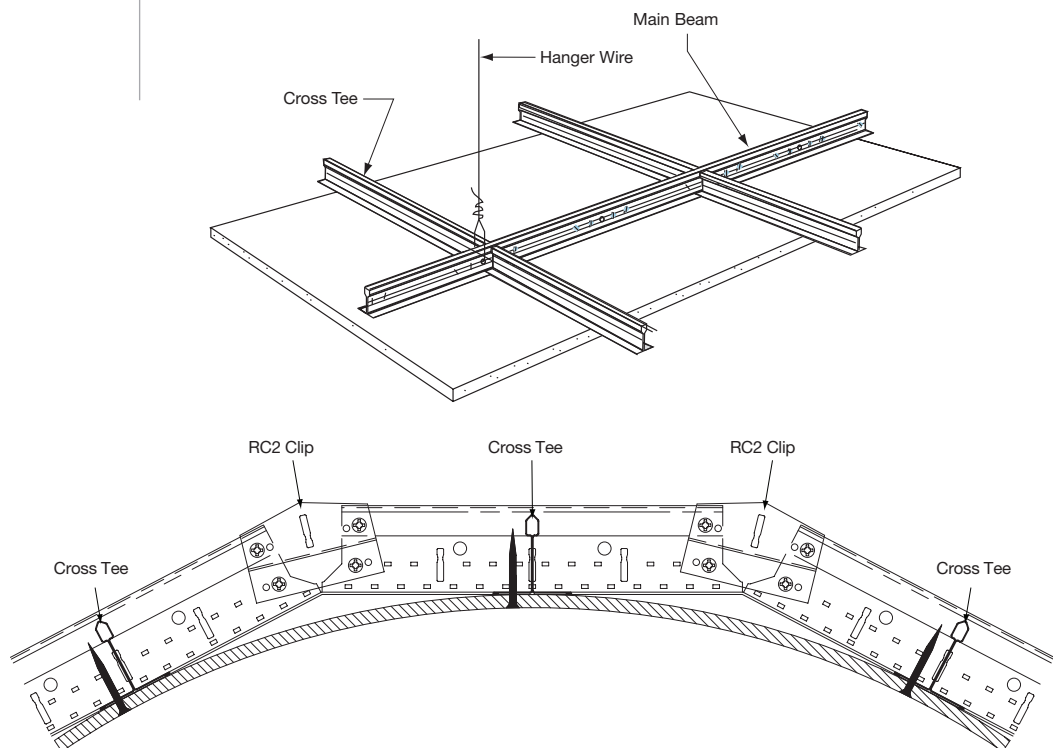
- Create custom radii to suit any design by combining our faceted main beam with our RC2 clip
- Variety of pre-engineered solutions for direct-to-deck installations, vertical drops, and short spans
- Engineered to give you design control, while providing a green installation by reducing steel up to 15%

Refer to Pgs. 497-498 for Armstrong® Drywall Grid System details

### TRADITIONAL Flat Drywall



### ARMSTRONG® Drywall Grid System for Flat and Curved Drywall





# COMMON CONDITION: Interior Glass Partitions

Creating the illusion of the glass appearing to pass through ceiling plane is difficult without the proper integrated solutions at your fingertips.



## ARMSTRONG® SOLUTIONS BENEFITS:

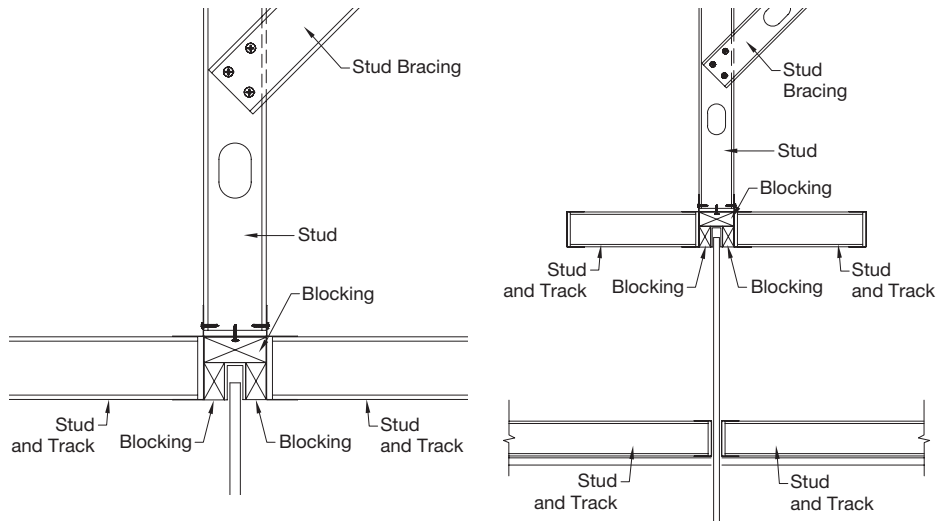
- Integration with all Armstrong® acoustical and drywall ceiling systems for a clean installed visual so glass can disappear into the plenum
- Coordinated fit and finish ensure delivery of design intent
- Completely concealed integration without the need for a drywall bulkhead

## ARMSTRONG® SOLUTIONS FEATURES:

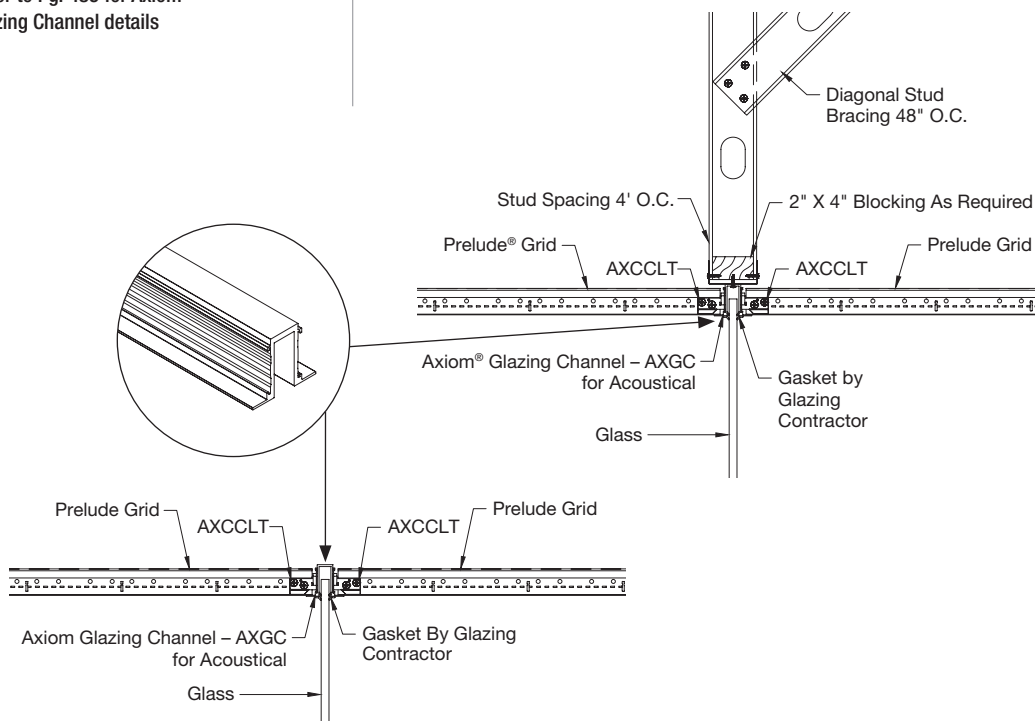
- Five trim profile options to coordinate Lay-in, Tegular, and Vector® ceiling panels and Drywall Grid Systems
- Recessed profiles - use with 3/8" and 1/2" thick interior glass partition walls
- Seismic solution for category D, E, F installations

Refer to Pg. 485 for Axiom® Glazing Channel details

## TRADITIONAL Glass Partition Installation



## ARMSTRONG® Axiom® Glazing Channel for Glass Partitions



## COMMON CONDITION:

### Corridors

Crowded or low plenums are always a challenge when designing due to many important components running above the ceiling plane, especially within healthcare applications.



Corridor

#### ARMSTRONG® SOLUTIONS BENEFITS:

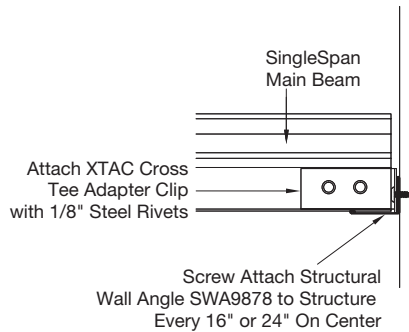
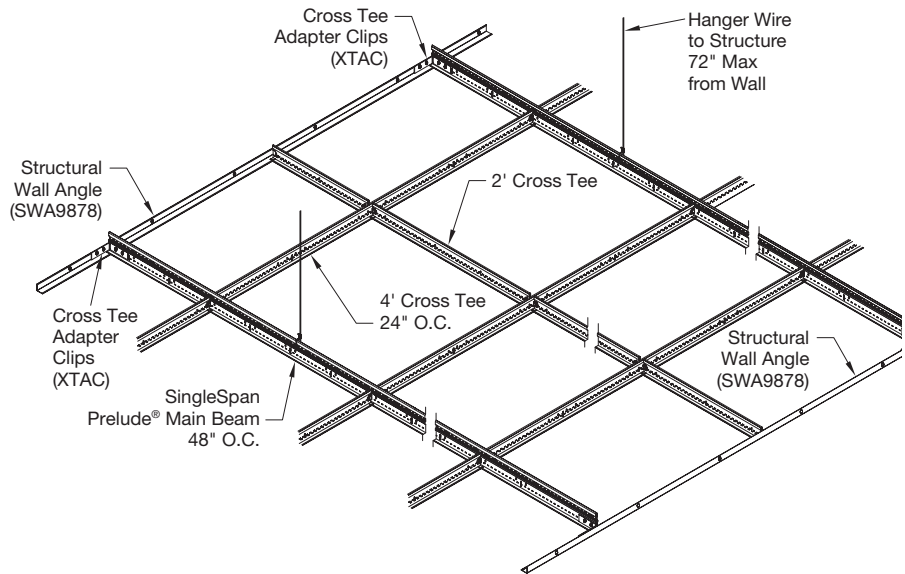
- Reduces or eliminates hanger wires – perfect for healthcare/education spaces with crowded plenums
- SingleSpan™ Suspension System provides improved access to utilities in the plenum post installation

#### ARMSTRONG® SOLUTIONS FEATURES:

- Compatible with all Armstrong® heavy-duty suspension main beams using StrongBack™ Support Hangers
- Structural wall angle maximizes the load-carrying performance of SingleSpan
- Seismically tested and approved suspension installation configuration (IAPMO certified, Evaluation Report #0244)

Refer to Pgs. 464-465 for Armstrong® SingleSpan™ Suspension System details

#### ARMSTRONG® SingleSpan™ Suspension System for Acoustical Applications



## COMMON CONDITION:

### Corridors

Traditional track and stud drywall installation across wide corridors can be difficult and interfere with components above the ceiling plane.



Drywall Corridor

#### ARMSTRONG® SOLUTIONS BENEFITS:

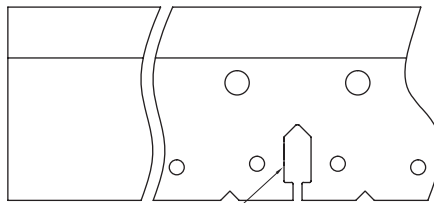
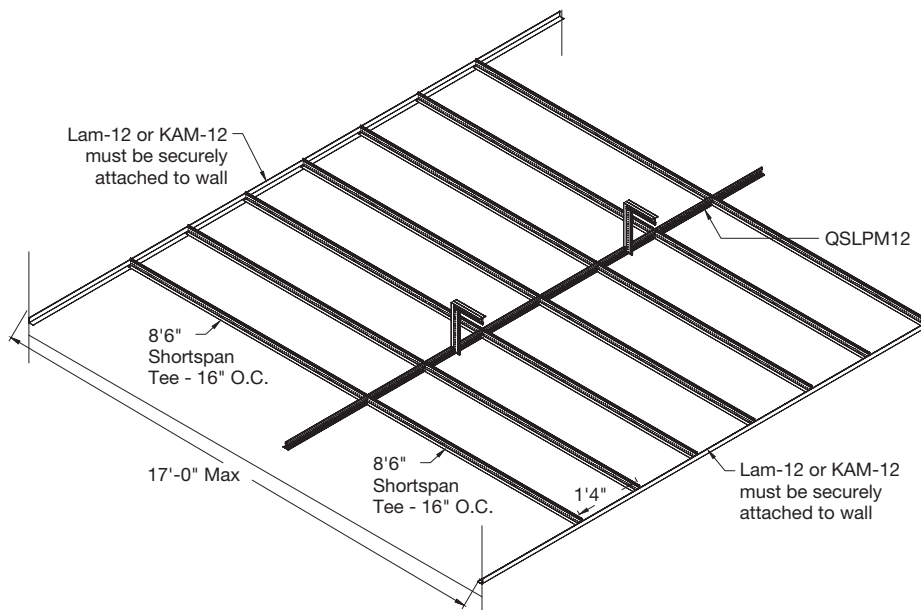
- Reduces or eliminates hanger wires – perfect for spaces with crowded plenums
- Span 5/8" drywall 8'-6" unsupported or up to 17' with StrongBack™ or Locking Pocket Main down the middle
- 2/3 less material (wires to structure & main runners/CRC)
- Improve soffit efficiency

#### ARMSTRONG® SOLUTIONS FEATURES:

- Compatible with all Armstrong® heavy-duty suspension main beams using StrongBack™ Support Hangers
- Balanced profile stays flat during installation
- Seismically tested and approved suspension installation configuration (APMO certified, Evaluation Report #0244)

Refer to Pgs. 502-503 for Armstrong® ShortSpan® Drywall Framing System details

#### ARMSTRONG® ShortSpan® Framing System for Drywall Applications



PeakForm® Bulb

# SUSPENSION SYSTEMS, TRIM & DRYWALL GRID

## Selector

Product information listed in this chart pertains to general product families, and may not apply to each product item. Before specifying or purchasing products, consult product details on our web site: [www.armstrongceilings.com/commercial](http://www.armstrongceilings.com/commercial) or call TechLine at 1 877 276-7876.

Improved suspension systems that perform better, carry increased ceiling load, and reduce installation hassles are the result of innovative features like PeakForm® profile and SuperLock™<sup>2</sup> main beam clip. PeakForm main beams and cross tees are manufactured with a bulb shape and taller profile to create a stronger, more stable suspension system that will get the job done better. Main beams have an improved load-carrying capacity that exceeds ASTM standards for intermediate and heavy-duty load performance. The PeakForm profile also meets the requirements for installation in all seismic categories, so you can specify it anywhere a 9/16" or 15/16" heavy-duty suspension system is desired.

Main beams also feature SuperLock<sup>2</sup> – a staked-on clip for a tighter, more secure bulb-to-bulb connection. Main beams with the SuperLock clip can be disconnected and reconnected laterally in low-clearance areas, or in the middle of a room.



Wherever you see the PeakForm icon, you can get the benefits of the PeakForm profile.

SUSPENSION SYSTEMS GENERAL APPLICATIONS	INTERLUDE® XL® HRC 9/16"	(Pgs. 452-453)
	PRELUDE® Concealed 15/16"	(Pg. 454)
	PRELUDE® ML 15/16"	(Pg. 455)
	PRELUDE® XL® 15/16"	(Pgs. 458-459)
	PRELUDE® XL® Fire Guard™ 15/16"	(Pgs. 458-459)
	PRELUDE® XL® HRC 15/16"	(Pgs. 458-459)
	SILHOUETTE® XL® 9/16"	(Pgs. 462-463)
	SONATA® 9/16"	(Pg. 466)
	SUPRAFINE® ML 9/16"	(Pgs. 467-468)
	SUPRAFINE® XL® 9/16"	(Pgs. 467-468)
	SUPRAFINE® XL® Fire Guard 9/16"	(Pgs. 467-468)
	SUPRAFINE® XL® HRC 9/16"	(Pgs. 467-468)
	SUSPENSION SYSTEMS SPECIAL APPLICATIONS	360° PAINTED Grid Suspension System
CLEAN ROOM™ Co-Extruded Aluminum 15/16", 1-1/2"		(Pg. 451)
CLEAN ROOM Co-Extruded Steel 15/16"		(Pg. 451)
PRELUDE Plus XL Aluminum 15/16"		(Pg. 456)
PRELUDE Plus XL Fire Guard 15/16"		(Pg. 457)
PRELUDE Plus XL Stainless Steel 15/16"		(Pg. 456)
PRELUDE® XL® for Exterior Applications 15/16"		(Pg. 457)
PRELUDE® XL MAX®		(Pgs. 460-461)
SINGLESPAN™ Acoustical Corridor Suspension System		(Pgs. 464-465)
AXIOM TRIM		AXIOM® Classic
	AXIOM One Piece for Drywall	(Pg. 484)
	AXIOM Glazing Channel	(Pg. 485)
	AXIOM® for Interlude®	(Pg. 486)
	AXIOM® Knife Edge®	(Pg. 487)
	AXIOM Moldings and Column Rings	(Pg. 494)
	AXIOM Paired	(Pg. 488)
	AXIOM Profiled	(Pg. 489)
	AXIOM Soft Edge	(Pg. 490)
	AXIOM Transitions	(Pgs. 491-492)
	AXIOM® Vector®	(Pg. 493)
DRYWALL SYSTEMS	DRYWALL Grid Systems – Flat	(Pgs. 497-498)
	DRYWALL Grid Systems – Curved	(Pg. 499)
	QUIKSTIX™ Locking Pocket Main Beams	(Pg. 501)
	QUIKSTIX Soffits	(Pg. 500)
	SHORTSPAN® Drywall Framing System	(Pgs. 502-503)





This Icon identifies Armstrong Seismic Rx® Suspension System

# Seismic Performance

## ARMSTRONG® SEISMIC RX® SUSPENSION SYSTEM SAVES TIME AND MONEY

Armstrong Ceilings offers an ICC-ES evaluated approach to installations (ESR-1308). The **Armstrong® Seismic Rx® Suspension System** offers a labor- and cost-saving method of meeting seismic code without risk of delaying your construction schedule.

### IBC Category C:

- Easier to square the system by attaching to adjoining walls
- Tighter, more secure installation
- Eliminate stabilizer bars
- Eliminate visible pop rivets at wall molding



### IBC Category D, E, F:

- Reduce material costs by using 7/8" molding
- Eliminate stabilizer bars
- Eliminate undesired visual 2" wall molding

### ICC-ES Recognizes the Armstrong® Seismic Rx® Suspension System as a Code-Compliant Solution.

The independent and expert evaluation and confirmation by ICC-ES provide the code official with proven evidence supporting the **Armstrong® Seismic Rx® Suspension System** as a code-compliant alternative design to current IBC requirements.

The performance of the **Armstrong® Seismic Rx® Suspension System** is based on a specific combination of components and method of installation.

**Other manufacturers' components and installation methods were not tested and are not covered in this evaluation. Substitution of other components puts the system at risk and is not allowed by this ESR report.**

## CATEGORY INSTALLATION REQUIREMENTS

**A, B** Ceiling installation should conform to basic minimums established in ASTM C636.

**C** To be installed to ASTM E580 recommendations for areas subject to light-to-moderate seismic activity.

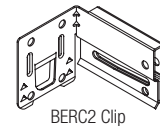
**D, E, F** Category D, E, and F ceilings are to be installed to ASTM E580 and IBC recommendations for areas subject to severe seismic activity.

**See [armstrongceilings.com/seismic](http://armstrongceilings.com/seismic) for more on seismic performance.**

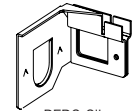
## ALTERNATIVE INSTALLATION – CATEGORY C

IBC Requirements	Armstrong® Seismic Rx® Solution	Solution Benefits
<ul style="list-style-type: none"> <li>• Minimum 7/8" wall molding</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum 7/8" wall molding</li> </ul>	<ul style="list-style-type: none"> <li>• Meets code requirements</li> </ul>
<ul style="list-style-type: none"> <li>• Suspension system must not be attached to the wall molding</li> </ul>	<ul style="list-style-type: none"> <li>• Suspension system may be cut tight and screw-attached on two adjoining walls</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to square up the system</li> <li>• Faster, tighter suspension system installation</li> </ul>
<ul style="list-style-type: none"> <li>• Minimum 3/8" clearance on all sides</li> <li>• Minimum 3/8" overlap of suspension system on the wall molding</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum 3/8" clearance on two unattached walls</li> </ul>	<ul style="list-style-type: none"> <li>• Better overall visual</li> </ul>
<ul style="list-style-type: none"> <li>• Ends of main beams and cross tees must be tied together to prevent spreading</li> </ul>	<ul style="list-style-type: none"> <li>• BERC2 or BERC on all suspension systems components</li> </ul>	<ul style="list-style-type: none"> <li>• Eliminates stabilizer bars</li> <li>• Lower cost solution</li> <li>• Better access to the plenum</li> </ul>
<ul style="list-style-type: none"> <li>• Perimeter wires are not needed</li> <li>• Intermediate-duty suspension system</li> </ul>	<ul style="list-style-type: none"> <li>• Perimeter wires are not needed</li> <li>• Intermediate-duty suspension system</li> </ul>	<ul style="list-style-type: none"> <li>• Meets code requirements</li> </ul>

NOTE: Requirements for essential use facilities may be different. Contact TechLine for details.



BERC2 Clip

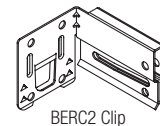


BERC Clip

## ALTERNATIVE INSTALLATION – CATEGORY D, E, F

IBC Requirements	Armstrong® Seismic Rx® Solution	Solution Benefits
<ul style="list-style-type: none"> <li>• Minimum 2" wall molding</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum 7/8" wall molding</li> </ul>	<ul style="list-style-type: none"> <li>• Meets code requirements</li> </ul>
<ul style="list-style-type: none"> <li>• Suspension system must be attached to two adjacent walls (Pop rivets acceptable)</li> </ul>	<ul style="list-style-type: none"> <li>• Suspension system must be attached with BERC2 Clips on two adjacent walls – opposite walls require BERC2 with 3/4" clearance (Eliminates the need for pop rivets through the visible part of the wall molding)<sup>1</sup></li> </ul>	<ul style="list-style-type: none"> <li>• Eliminates installation and aesthetic problems associated with 2" wall molding</li> </ul>
<ul style="list-style-type: none"> <li>• Opposite walls must have a 3/4" clearance</li> </ul>	<ul style="list-style-type: none"> <li>• BERC2 clip with 3/4" clearance on unattached ends</li> </ul>	<ul style="list-style-type: none"> <li>• BERC2 eliminates visible pop rivets through the wall angle</li> </ul>
<ul style="list-style-type: none"> <li>• Stabilizer bars to prevent the spread of main beams and cross tees</li> <li>• Perimeter support wires</li> </ul>	<ul style="list-style-type: none"> <li>• BERC2 maintains main beam and cross tee spacing; no other components required</li> <li>• Perimeter wires are required</li> </ul>	<ul style="list-style-type: none"> <li>• Eliminates stabilizer bars</li> <li>• Lower cost solution</li> <li>• Better access to the plenum</li> </ul>
<ul style="list-style-type: none"> <li>• Heavy-duty suspension system</li> </ul>	<ul style="list-style-type: none"> <li>• Heavy-duty systems as identified in ICC-ESR-1308 (refer to Suspension Systems)</li> </ul>	<ul style="list-style-type: none"> <li>• Meets code requirement</li> </ul>

<sup>1</sup> Pop rivets optional on attached walls



BERC2 Clip



# SUSPENSION SYSTEMS

SUSPENSION SYSTEMS

# SUSPENSION SYSTEMS

## At-a-Glance

### Standard Suspension Systems

#### EXPOSED TEE SUSPENSION SYSTEMS



PRELUDE® XL®  
PRELUDE® XL® HRC



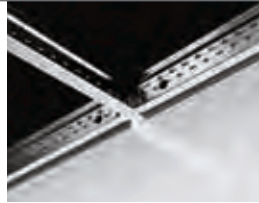
Pgs. 458-459



PRELUDE® ML



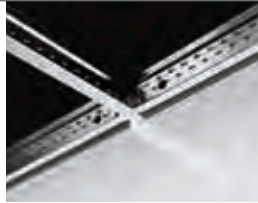
Pg. 455



SUPRAFINE® XL®  
SUPRAFINE® XL® HRC



Pgs. 466-467



SUPRAFINE® ML



Pgs. 468-469



#### DESIGNFLEX™ EXPOSED TEE SUSPENSION SYSTEMS



PRELUDE® XM



Pgs. 158-159



SUPRAFINE® XM



Pgs. 160-161

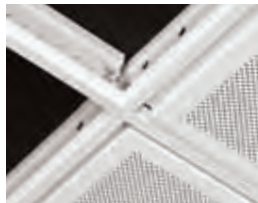
#### DIMENSIONAL TEE SUSPENSION SYSTEMS



INTERLUDE® XL®



Pgs. 452-453



SONATA®



Pg. 468

#### SLOTTED TEE SUSPENSION SYSTEMS



SILHOUETTE® XL 1/4" Reveal



Pg. 462



SILHOUETTE® XL 1/8" Reveal



Pg. 463

#### CONCEALED SUSPENSION SYSTEM



PRELUDE®



Pg. 454

#### PAINTED SUSPENSION SYSTEM



360° PAINTED Grid System



Pg. 450

1 CTN MIN  
Made-to-Order  
Sizes or  
Colors  
(2 Wks)\*

#### MADE-TO-ORDER SIZES OR COLORS

- Factory-finished
- Size Flexibility  
24" – 144" for main beams  
3" – 144" for cross tees  
Custom rout spacing available

- Fast lead time:  
2 weeks for special size or color requests  
4 weeks for special size and color combinations
- 1 carton minimum

\* NOTE: Up to 6 Weeks for  
Color & Size Combinations



# SUSPENSION SYSTEMS

## At-a-Glance

### Special Application Suspension Systems

#### ENVIRONMENTAL TEE SUSPENSION SYSTEM

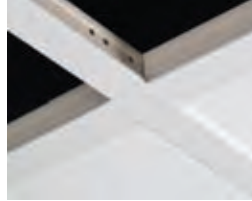


PRELUDE® Plus XL® Aluminum,  
PRELUDE® Plus XL® Stainless Steel  
PRELUDE® Plus XL® Fire Guard™  
PRELUDE® XL for Exterior Applications



Pgs. 456-457

#### CLEAN ROOM SUSPENSION SYSTEM



CLEAN ROOM™



Pg. 451

#### CORRIDOR SUSPENSION SYSTEM



SINGLESPAN™

FS



Pgs. 464-465

#### DATA CENTER SUSPENSION SYSTEM



PRELUDE® XL Max®



Pgs. 460-461

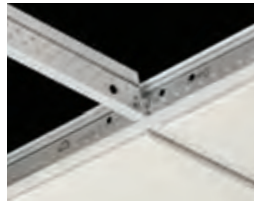
#### DC FLEXZONE® SUSPENSION SYSTEMS



SILHOUETTE® XL®  
(Featured in Integrated Ceiling Solutions)



Pgs. 462-463



SUPRAFINE® XL®  
(Featured in Integrated Ceiling Solutions)



Pgs. 466-467

#### ICON KEY

Icons are used throughout the catalog to help you quickly identify key product attributes.

#### Fire Resistance

Available in fire-resistant options (Fire Guard™); tested in specific UL floor/ceiling or roof/ceiling construction design assemblies.

#### Humidity/Corrosion Resistance

##### HumiGuard® Plus

Recommended for areas subject to high humidity, up to, but including, standing water.

##### HumiGuard Max

Maximum humidity resistance.

#### Chemical/Corrosion Resistance



#### Seismic Rx® Suspension System

Category D, E & F

#### Sustainability

Product is part of Sustain™ Portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only.

#### Color Availability

Available in color.

#### COLORS Due to printing limitations, shade may vary from actual product.

NOTE: Suspension system colors to coordinate with MetalWorks™ Tin, Tincraft™ faux finishes, and custom-painted panels are "S" Service items are available upon request.

#### Standard



#### Premium



#### Powder Coated



#### Sustain™ (Suspension Systems chosen with these colors are part of the Sustain™ Portfolio)





# CLEAN ROOM™ Steel/Aluminum

## 15/16" and 1-1/2" Exposed Tee System

**30% STEEL** **91% ALUMINUM** **RECYCLED CONTENT** Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED®** **energy management** **construction waste mgmt** **regional materials** **design for flexibility** **EPD** **recyclable/extended producer resp.** **biobased materials** **recycled content** **sourcing of raw materials** **material ingredient reporting** **low emitting materials** **lighting quality** **acoustics**

LOCATION DEPENDENT

This suspension system with integral gasket is designed specifically for clean rooms, food processing areas, and data centers.



Clean Room™ suspension system

### KEY SELECTION ATTRIBUTES

- Suitable for use in Class 5 (Class 100 clean rooms as defined by ISO Standard 14644-1 (Federal Standard 209E) when used with Clean Room™ FL, Clean Room VL, Health Zone™ Ultima®, and Health Zone™ Optima®
- Seismic Rx® Suspension System; ICC-ES approach to installations (ESR-1308)
- Integral gasket for better seal between panel and grid
- Integral main beam splice for easy connections and module control
- XL® staked-on end detail

- Rotary-stitched for additional torsion strength
- 10-year limited warranty; 30-year with HumiGuard® Plus

### TYPICAL APPLICATIONS

- Laboratories / Clean Rooms
- Pharmaceutical facilities / hospitals
- Automotive and aerospace
- Computer rooms / data centers
- Food processing facilities
- MRI suites (co-extruded aluminum only)

### COLORS



### VISUAL SELECTION Aluminum – maximum corrosion resistance

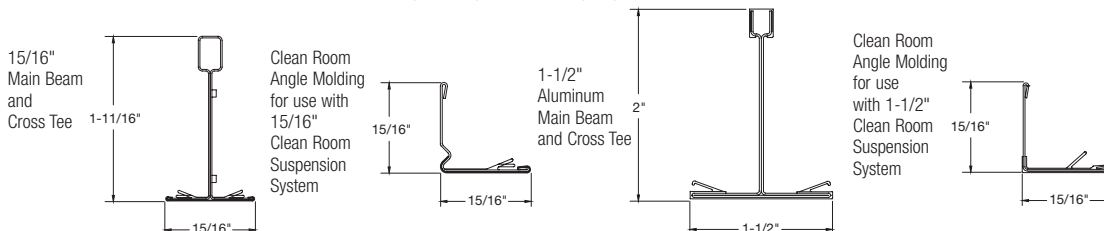
### PERFORMANCE

### PACKAGING

Face Profile	Item No.	Description	Rout Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./LFT			Fire Guard™	Seismic Category	Pcs./Ctn.	LFT/Ctn.
					2 Ft.	4 Ft.	5 Ft.				
<b>CLEAN ROOM Co-Extruded Steel (Gasketed)</b>								Dots represent high level of performance.			
15/16"	<b>ES7901</b>	12' HD Main Beam	12" O.C.	144 x 15/16 x 1-11/16"	–	18.33	–		•	20	240
15/16"	<b>ES7940</b>	4' Cross Tee	24" O.C.	48 x 15/16 x 1-11/16"	–	16.83	–		–	60	240
15/16"	<b>ES7920</b>	2' Cross Tee	–	24 x 15/16 x 1-11/16"	60.83	–	–		–	60	240
15/16"	<b>ES7801</b>	12' Hemmed Angle Molding	–	144 x 15/16 x 15/16"	–	–	–		–	Varies	Varies
<b>CLEAN ROOM Co-Extruded Aluminum (Gasketed)</b>											
15/16"	<b>EA7900</b>	12' ID Main Beam	12" O.C.	144 x 15/16 x 2"	–	12.25	–	–	20	240	
15/16"	<b>EA7940</b>	4' Cross Tee	24" O.C.	48 x 15/16 x 2"	–	15.32	–	–	60	240	
15/16"	<b>EA7920</b>	2' Cross Tee	–	24 x 15/16 x 2"	66.62	–	–	–	60	120	
15/16"	<b>EA7812</b>	12' Hemmed Angle Molding	–	144 x 15/16 x 15/16"	–	–	–	–	Varies	Varies	
<b>CLEAN ROOM 1-1/2" Co-Extruded Aluminum (Gasketed)</b>											
1-1/2"	<b>EA7903</b>	12' HD Main Beam	12" O.C.	144 x 1-1/2 x 2"	–	16.7	8.4	•	12	144	
1-1/2"	<b>EA7947</b>	4' Cross Tee	24" O.C.	48 x 1-1/2 x 2"	–	17.66	–	–	36	144	
1-1/2"	<b>EA7927</b>	2' Cross Tee	–	24 x 1-1/2 x 2"	60.55	–	–	–	36	72	
1-1/2"	<b>EA7813</b>	12' Hemmed Angle Molding	–	144 x 15/16 x 15/16"	–	–	–	–	30	360	
<b>Accessories (For additional accessories see Pgs. 379-380)</b>											
–	<b>CHDC</b>	Clear Hold Down Clip	–	–	–	–	–	–	50	–	
–	<b>XTAC</b>	Cross Tee Adapter Clip	–	–	–	–	–	–	100	–	
–	<b>BERC2</b>	Steel Beam End Retaining Clip	–	–	–	–	–	–	200	–	
–	<b>ALBERC2</b>	Aluminum Beam End Retaining Clip	–	–	–	–	–	–	200	–	

\* Simple Span

### DETAILS For more information, see submittal BPCS-3070 (Aluminum) or BPCS-4121 (Steel).



### LIGHT FIXTURES

NOTE: Specify light fixtures designed to install with 2" web height suspension systems.

Compatible Light Fixtures:

MANUFACTURER	ITEM #
Lithonia	CLRM-150 SRT-2x4_F MP4270
Philips-Guth	KLEENSEAL KRT 200
Morlite	CRGHEPA24 Series

# INTERLUDE® XL® High Recycled Content 9/16" Dimensional Tee System



Interlude® XL® suspension system

This dimensional 9/16" suspension system offers high-recycled content for improved LEED® credits

## KEY SELECTION ATTRIBUTES

- Hot-dipped galvanized coating inhibits red rust better than electrogalvanized or painted systems
- Interlude® XL® is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 449)
- XL staked-on end detail provides secure locked connection
- Unlimited intersections for flexibility of cross tee placement
- Accommodates virtually any fixture, especially 1' x 4' light fixtures and air handling
- 10-Year Limited System Warranty; 30-Year Limited Ceiling Systems Warranty when used with **HumiGuard® Plus** products
- Some items available in metric sizes
- **Made-to-Order** main beams and cross tees can be ordered with special sizing and rout spacing for your project needs in one carton minimum
- Blizzard White powder-coated finish coordinates with Calla®, Optima®, Ultima®, and Lyra® ceiling panels for a clean, seamless, monolithic installed visual
- Linear lighting integration is easy with made-to-order main-beam-to-cross-tee adapters, rout spacing, miter spacing, and short cross tees (3" to 6" lengths).
- 10-Year replacement items available



## COLORS

Standard Finish



White (WH)

Powder-Coated Finish



Blizzard White (ZW) Items with ❖



Available in any color!

## VISUAL SELECTION

Face Profile	Item No. ♦	Description	Rout Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./LFT			
					1 Ft.	2 Ft.	4 Ft.	5 Ft.
<b>Interlude® XL®</b>								
9/16"	<b>6100HRC</b> _ ❖	12' ID Main Beam	6" O.C.	144 x 9/16 x 1-3/4"	–	–	12.6	–
9/16"	<b>6101HRC</b> _ ❖	12' HD Main Beam	6" O.C.	144 x 9/16 x 1-3/4"	–	–	16.79	–
9/16"	<b>XL6180HRC</b> _ ❖	8' Cross Tee	12" O.C.	96 x 9/16 x 1-3/4"	–	–	12.6	–
9/16"	<b>XL6190HRC</b> _ ❖	6' Cross Tee	12" O.C.	72 x 9/16 x 1-3/4"	–	–	12.6	–
9/16"	<b>XL6150AHRC</b> _ ❖	5' Cross Tee	6", 20", 30"	60 x 9/16 x 1-3/4"	–	–	–	5.8
9/16"	<b>XL6140HRC</b> _ ❖	4' Cross Tee	12" O.C.	48 x 9/16 x 1-3/4"	3.0	–	12.6	–
9/16"	<b>XL6170HRC</b> _ ❖	2.5' Cross Tee	–	30 x 9/16 x 1-3/4"	38.8	–	–	–
9/16"	<b>XL6120HRC</b> _ ❖	2' Cross Tee	–	24 x 9/16 x 1-3/4"	–	66.89	–	–
9/16"	<b>XL6110HRC</b> _ ❖	1' Cross Tee	–	12 x 9/16 x 1-3/4"	66.89	–	–	–
<b>Size Capabilities</b>		<b>Main Beams Length</b>	<b>Cross Tees Length</b>					
9/16"	<b>1 CTN MIN</b> Made-to-Order Sizes or Colors (2 Wks)*	24" – 144" Rout spacing 3" from ends, 6" thereafter * NOTE: Up to 6 Weeks for Color & Size Combinations	3" – 144"	–	–	–	–	–

## PERFORMANCE

Fire Guard™	Seismic Category

Dots represent high level of performance.

## PACKAGING

Pcs./ Ctn.	LFT/ Ctn.
20	240
20	240
20	160
20	120
60	300
60	240
60	100
60	120
120	120

Made-to-Order main beams and cross tees can be ordered with special sizes, rout spacing, and colors for your project needs in one carton minimums.  
 \* Simple Span  
 ❖ All items available in Blizzard White powder-coated finish  
 ♦ When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 6101HRC Z W – Blizzard White)

ASTM Class  
 HD - Heavy-duty  
 ID - Intermediate-duty  
 LD - Light-duty

# INTERLUDE® XL® High Recycled Content 9/16" Dimensional Tee System

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant



SUSTAIN<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO **61%** RECYCLED CONTENT

LEED<sup>®</sup>

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at  
armstrongceilings.com/greengenie

## VISUAL SELECTION

## PERFORMANCE

## PACKAGING

Face Profile	Item No. ♦	Description	Rout Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./LFT				Fire Guard™	Seismic Category DEF	Pcs./ Ctn.	LFT/ Ctn.
					1 Ft.	2 Ft.	4 Ft.	5 Ft.				
<b>Interlude® XL® HRC items for TechZone® Ceiling Systems</b>					1 Ft.	2 Ft.	4 Ft.	5 Ft.	Dots represent high level of performance.			
9/16"	<b>6195AHRC</b> _ ❖	126" HD Main Beam	10", 30", 50", 70", 90", 110", 116"	126 x 9/16 x 1-3/4"	-	-	16.79	-	-	•	20	210
9/16"	<b>6127AHRC</b> _ ❖	120" HD Main Beam	15", 42", 48", 75", 102", 108"	126 x 9/16 x 1-3/4"	-	-	16.79	-	-	•	20	210
9/16"	<b>XL6164AHRC</b> _ ❖	54" Cross Tee	6", 27", 48"	54 x 9/16 x 1-3/4"	-	-	9.2 at 4.5'	-	-	•	60	270
9/16"	<b>XL6162HRC</b> _ ❖	42" Cross Tee	-	42 x 9/16 x 1-3/4"	-	-	20 at 3.5'	-	-	•	60	210
9/16"	<b>XL6167HRC</b> _ ❖	27" Cross Tee	-	27 x 9/16 x 1-3/4"	-	49.32	-	-	-	•	60	135
9/16"	<b>XL6106HRC</b> _ ❖	6" Cross Tee	-	6 x 9/16 x 1-3/4"	-	-	-	-	-	•	60	30
9/16"	<b>XL6104HRC</b> _ ❖	4" Cross Tee	-	4 x 9/16 x 1-3/4"	-	-	-	-	-	•	60	20

NOTE: Additional Interlude XL items for TechZone® Ceiling Systems are listed in the TechZone Technical Guide (BPCS-4486). Available online at armstrongceilings.com/techzone

ASTM Class  
HD - Heavy-duty  
ID - Intermediate-duty  
LD - Light-duty

Face Profile	Item No. ♦	Description	Length	(A) Flange	(B) Flange	(C) Reveal	(D) Reveal	Pcs./ Ctn.	LFT/ Ctn.
<b>Suggested Wall Moldings and Shadow Moldings (Additional molding options available. See catalog Pgs. 469-471)</b>									
7/8"	<b>7800HRC</b> _ ❖	12' Hemmed Angle Molding	144"	7/8"	7/8"	-	-	30	360
9/16"	<b>7889</b>	12' Hemmed Angle Molding	144"	9/16"	7/8"	3/8"	1/4"	30	300
9/16"	<b>7804HRC</b> _ ❖	12' Hemmed Angle Molding	144"	9/16"	7/8"	-	-	30	300
9/16"	<b>7873</b> _ ❖	10' Shadow Molding	120"	9/16"	15/16"	3/8"	-	30	300
9/16"	<b>7874</b> _ ❖	10' Shadow Molding	120"	9/16"	15/16"	1/4"	-	30	300
15/16"	<b>7888</b>	10' Shadow Molding	120"	15/16"	15/16"	3/8"	1/4"	30	300
15/16"	<b>7877</b> _ ❖**	10' Seismic Shadow Molding	120"	15/16"	15/16"	1/4"	-	30	300
15/16"	<b>7878</b> _ ❖**	10' Seismic Shadow Molding	120"	15/16"	15/16"	3/8"	-	30	300

- \* Simple Span
- \*\* Suitable for Category D, E, F Seismic Installation with BERC2 Clip
- ❖ All items available in Blizzard White powder-coated finish
- ♦ When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7804 Z W - Blizzard White)

## ACCESSORIES For accessories see pages 472-473

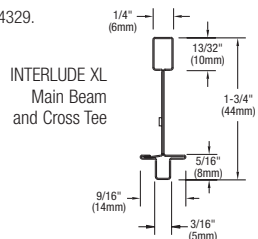
## DETAILS For more information, see submittal BPCS-4329.



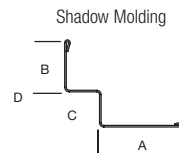
INTERLUDE XL  
Main Beam



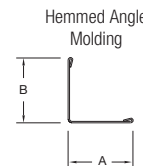
INTERLUDE XL  
Cross Tee



INTERLUDE XL  
Main Beam  
and Cross Tee



Shadow Molding



Hemmed Angle  
Molding

TechLine 877 276-7876  
armstrongceilings.com/suspensionsystems

LEED® is a registered trademark of the U.S. Green Building Council  
Declare™ is a service mark of The International Living Future Institute

**Armstrong**  
CEILING & WALL SOLUTIONS

453

SUSPENSION SYSTEMS

# PRELUDE® Concealed Tee System



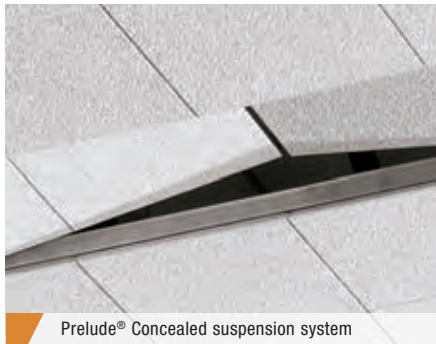
UP TO 30% RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

Sophisticated slotted suspension system with a narrow 1/4" reveal.



Prelude® Concealed suspension system

## KEY SELECTION ATTRIBUTES

- **PeakForm®** profile increases strength and stability
- Prelude® Concealed is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White only
- **SuperLock™** main beam clip is engineered for a strong, secure connection
- Hot-dipped galvanized coating inhibits red rust
- 10-Year Limited Warranty; 30-Year Limited Warranty with **HumiGuard® Plus** products
- Rotary-stitched for additional torsional strength and extra stability

## COLORS

White (WH)	Unpainted	
7301	7446	7445
7300	7426	7425
ML7343	7447	7870
XL7342	7427	7428
ML7323	7486	7418
XL7328		
7835		
7830		

## VISUAL SELECTION

## PERFORMANCE

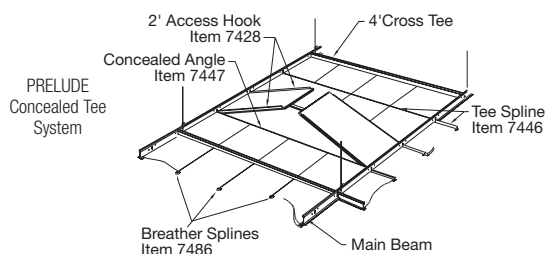
## PACKAGING

Face Profile	Item No.	Description	Dimensions (Inches)	Hanger Spacing* Lbs./LFT		Fire Guard™	Seismic Category	Pcs./ Ctn.	LFT/ Ctn.
				4 Ft.	5 Ft.				
<b>Prelude® Concealed</b>									
15/16"	<b>7301</b>	12' HD Main Beam	144 x 15/16 x 1-11/16"	16.50	8.73	-	-	20	240
15/16"	<b>7300</b>	12' ID Main Beam	144 x 15/16 x 1-11/16"	12.80	6.35	-	-	20	240
15/16"	<b>ML7343</b>	4' Cross Tee	48 x 15/16 x 1-1/2"	9.00	-	-	-	60	240
15/16"	<b>XL7342</b>	4' Cross Tee	48 x 15/16 x 1-1/2"	9.00	-	-	-	60	240
15/16"	<b>ML7323</b>	2' Cross Tee	24 x 15/16 x 1-1/2"	38.63	-	-	-	60	120
15/16"	<b>XL7328</b>	2' Cross Tee	24 x 15/16 x 1-3/8"	38.63	-	-	-	60	120
3/4"	<b>7446</b>	4' Tee Spline	48 x 3/4 x 7/8"	-	-	-	-	125	500
7/8"	<b>7426</b>	2' Tee Spline	24 x 3/4 x 7/8"	-	-	-	-	125	250
7/16"	<b>7447</b>	4' Concealed Angle	48 x 7/16 x 1-1/4"	-	-	-	-	75	300
7/16"	<b>7427</b>	2' Concealed Angle	24 x 7/16 x 1-1/4"	-	-	-	-	150	300
<b>Suggested Molding</b> (Additional molding options available. See Pages 469-471)									
7/8"	<b>7835</b>	10' Channel Molding	120 x 7/8 x 1-3/4 x 9/16"	-	-	-	-	20	200
15/16"	<b>7830</b>	10' Channel Molding	120 x 15/16 x 1-15/16 x 15/16"	-	-	-	-	16	160
<b>Accessories</b>									
-	<b>7445</b>	4' Stabilizer Bar	48"	-	-	-	-	100	400
-	<b>7425</b>	2' Stabilizer Bar	24"	-	-	-	-	100	200
-	<b>7486</b>	Breather Spline	11"	-	-	-	-	500	-
7/16"	<b>7428</b>	2' Access Hook	24 x 7/16 x 1-1/4"	-	-	-	-	300	300
7/16"	<b>7418</b>	1' Access Hook	12 x 7/16 x 1-1/4"	-	-	-	-	150	300
-	<b>7870</b>	Spring Border Clip	-	-	-	-	-	1,000	-

\* Simple Span

ASTM Class  
 HD - Heavy-duty  
 ID - Intermediate-duty  
 LD - Light-duty

**DETAILS** For more information, see submittal BPCS-3347.



# PRELUDE® ML

## 15/16" Exposed Tee System



UP TO 30% RECYCLED CONTENT

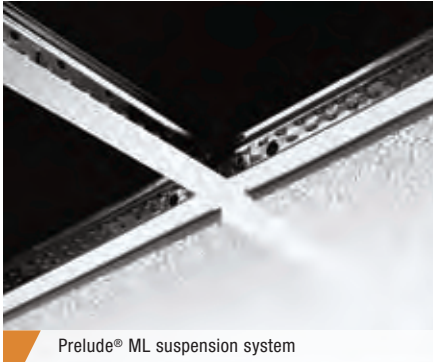
Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

A 15/16" suspension system with hook-end details.



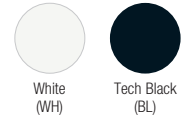
Prelude® ML suspension system

### KEY SELECTION ATTRIBUTES

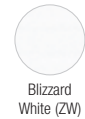
- **PeakForm®** profile increases strength and stability for improved performance during installation
- Prelude® ML is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White only
- **SuperLock™** main beam clip is engineered for a strong, secure connection and fast, accurate alignment confirmed with an audible click; easy to remove/relocate
- Hot-dipped galvanized coating inhibits red rust better than electrogalvanized or painted systems
- Rotary-stitched during manufacture for additional torsional strength and extra stability during installation
- Hook staked-on end detail provides secure locked connection; easy to remove, reuse, and relocate
- 10-Year Limited Warranty; 30-Year Limited Warranty with **HumiGuard® Plus** products
- Main beams and cross tees can be ordered with special sizing and root spacing for your project needs

### COLORS

#### Standard



#### Powder-Coated Finish



### VISUAL SELECTION

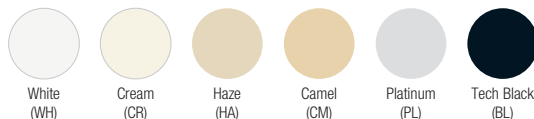
Face Profile	Item No. ♦	Description	Dimensions (Inches)	Hanger Spacing* Lbs./LFT		Fire Guard™	Seismic Category	Pcs./ Ctn.	LFT/ Ctn.
				4 Ft.	5 Ft.				
<b>Prelude® ML</b>									
15/16"	<b>7301</b> _ _ ❖	12' HD Main Beam	144 x 15/16 x 1-11/16"	16.73	8.73	–	–	20	240
15/16"	<b>7300</b> ♦	12' ID Main Beam	144 x 15/16 x 1-11/16"	13.50	6.35	–	–	20	240
15/16"	<b>7302</b> ♦	10' ID Main Beam	120 x 15/16 x 1-11/16"	13.50	6.35	–	–	20	200
15/16"	<b>ML7357</b> ❖	5' Cross Tee	60 x 15/16 x 1-11/16"	–	7.61	–	–	60	300
15/16"	<b>ML7343</b> _ _ ❖	4' Cross Tee	48 x 15/16 x 1-1/2"	7.80	–	–	–	60	240
15/16"	<b>ML7323</b> _ _ ❖	2' Cross Tee	24 x 15/16 x 1-1/2"	38.63	–	–	–	60	120
<b>Suggested Molding</b> (Additional molding options available. See pages 469-471)									
7/8"	<b>7800</b> _ _ ❖	12' Hemmed Angle Molding	144 x 7/8 x 7/8"	–	–	–	–	30	360
15/16"	<b>7809</b>	12' Hemmed Angle Molding	144 x 15/16 x 15/16"	–	–	–	–	30	360
9/16"	<b>7835</b>	10' Hemmed Channel Molding	120 x 7/8 x 1-3/4 x 9/16"	–	–	–	–	20	200

\* Simple Span  
 ❖ All items available in Blizzard White powder-coated finish  
 ♦ When specifying or ordering, add 2-letter color suffix to item number (ex. 7301 B L)

ASTM Class  
 HD - Heavy-duty  
 ID - Intermediate-duty  
 LD - Light-duty

### COLOR AND FINISH SELECTION

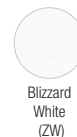
#### Standard



#### Premium



#### Powder-Coated Finish



NOTE: Items 7809 and 7875 available in White (WH) only.  
 NOTE: Color chips included with samples of Armstrong® Grid. See your Armstrong Ceilings representative for sample material.

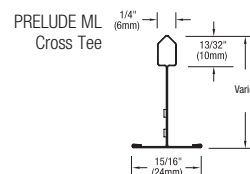
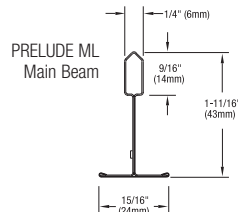
### DETAILS For more information, see submittal BPCS-3346.



PRELUDE ML Main Beam



PRELUDE ML Cross Tee



# PRELUDE® Plus XL® Aluminum PRELUDE® Plus XL® Stainless Steel Environmental Tee System

30% STEEL 91% ALUMINUM RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

These steel and aluminum 15/16" suspension systems are designed for severe environmental performance.



Prelude® Plus XL® Aluminum suspension system

## KEY SELECTION ATTRIBUTES

- **Seismic Rx®** Suspension System saves time and money; an ICC-ES approach to installations (ESR-1308)
- Systems conform to ASTM C635 for severe environmental performance
- 10-Year Limited Warranty; 30-Year Limited Warranty with **HumiGuard® Plus** or **HumiGuard® Max** products
- Special sizing and rout spacing available
- Rotary-stitched for torsional strength and stability
- XL® staked-on end detail provides secure locked connection

### PRELUDE® Plus XL® Aluminum

- Maximum moisture resistance

### PRELUDE® Plus XL® Stainless Steel

- Type 304, non-magnetic, stainless steel; withstands corrosive agents
- Peel-off protective film on exposed surfaces prevents scuffing and marking

## TYPICAL APPLICATIONS

### PRELUDE Plus XL Aluminum

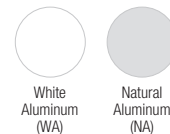
- Indoor swimming pools with proper ventilation
- Non-magnetic areas/MRI suites

### PRELUDE Plus XL Stainless Steel

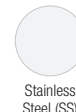
- Food preparation, storage, manufacturing, and packaging areas
- Laboratories
- Chemical processing

## COLORS

### Aluminum



### Steel



## VISUAL SELECTION

Face Profile	Item No. ♦	Description	Dimensions (Inches)	Hanger Spacing* Lbs./LFT		
				2 Ft.	3 Ft.	4 Ft.
<b>Prelude® Plus XL® Aluminum</b>						
15/16"	<b>AL7200</b> _ _	12' LD Main Beam	144 x 15/16 x 1-1/2"	–	13.47	6.33
15/16"	<b>XLAL7240</b> _ _	4' Cross Tee	48 x 15/16 x 1-1/2"	–	–	6.33
15/16"	<b>XLAL7220</b> _ _	2' Cross Tee	24 x 15/16 x 1-1/2"	44.45	–	–
15/16"	<b>Other Sizes</b>	Main beams L: 36" - 144" / Cross tees L: 6" - 144" / Rout spacing 3" from ends, 6" thereafter				
<b>Molding</b>						
7/8"	<b>AL7801</b> _ _	10' Hemmed Angle Molding	120 x 7/8 x 7/8"	–	–	–
<b>Prelude Plus XL Stainless Steel</b>						
15/16"	<b>SS7200</b>	12' ID Main Beam	144 x 15/16 x 1-1/2"	–	–	12.23
15/16"	<b>XLSS7240</b>	4' Cross Tee	48 x 15/16 x 1-1/2"	–	–	10.4
15/16"	<b>XLSS7220</b>	2' Cross Tee	24 x 15/16 x 1-1/2"	61.66	–	–
15/16"	<b>Other Sizes</b>	Main beams L: 36" - 144" / Cross tees L: 6" - 144" / Rout spacing 3" from ends, 6" thereafter				
<b>Molding</b>						
7/8"	<b>SS7801</b>	10' Hemmed Angle Molding	120 x 7/8 x 7/8"	–	–	–
<b>Accessories</b>						
	<b>ALBERC2</b>	Aluminum Beam End Retaining Clip		–	–	–

## PERFORMANCE

Fire Guard™	Seismic Category
–	–
–	–
–	–
–	–
–	–

Dots represent high level of performance.

## PACKAGING

Pcs./ Ctn.	LFT/ Ctn.
20	240
60	240
60	120
Varies	Varies
30	300

\* Simple Span  
♦ Add 2-letter color suffix to item number when specifying or ordering (ex. AL7200N A)

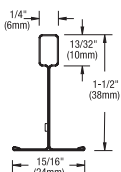
ASTM Class  
HD - Heavy-duty  
ID - Intermediate-duty  
LD - Light-duty

## DETAILS For more information, see submittal BPCS-3155 (Prelude Plus XL Aluminum) or BPCS-3154 (Prelude Plus XL Stainless Steel).



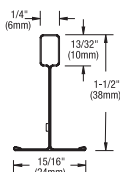
PRELUDE Plus XL Aluminum Cross Tee

PRELUDE Plus XL Aluminum Main Beam and Cross Tee



PRELUDE Plus XL Stainless Steel Cross Tee

PRELUDE Plus XL Stainless Steel Main Beam and Cross Tee





# PRELUDE® Plus XL® Fire Guard™

## PRELUDE® XL® for Exterior Applications

### Exposed Tee System



UP TO **30%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®	energy management	construction waste to reuse	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	bio-based materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-----------------------------	--------------------	------------------------	-----	------------------------------------	---------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

A 15/16" suspension system for severe environmental performance.



Prelude® Plus XL® suspension system

#### KEY SELECTION ATTRIBUTES

- **Seismic Rx®** Suspension System saves time and money; ICC-ES approach to installations (ESR-1308)
- Prelude® Plus XL® Fire Guard™ and Prelude® XL® for Exterior Applications are part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White only
- Systems conform to ASTM C635 for Severe Environmental Performance
- Rotary-stitched during manufacture for torsional strength and stability
- 10-Year Limited Warranty; 30-Year Limited Warranty with **HumiGuard® Plus** or **HumiGuard® Max** products
- XL® staked-on end detail provides secure locked connection
- **PeakForm®** profile increases strength and stability
- **SuperLock™** main beam clip engineered for secure connection and fast, accurate alignment
- 10-year replacement items available

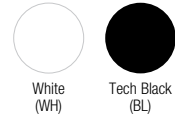


#### COLORS

##### Fire Guard™



##### Exterior



#### PRELUDE® XL® For Exterior Applications

- Minimum G90 hot-dipped galvanized steel with prefinished G90 steel capping
- Suitable for wind uplift applications with appropriate bracing

#### PRELUDE® Plus XL® Fire Guard™

- Systems are minimum G60 hot-dipped galvanized steel with prefinished aluminum capping for enhanced corrosion resistance

#### TYPICAL APPLICATIONS

##### PRELUDE Plus XL Fire Guard

- Locker rooms
- Food preparation areas

##### PRELUDE XL For Exterior Applications

- Non-exposed exterior corridors
- Drive-thru areas
- Indoor parking garages
- Use with Woodworks® Linear Solid Wood Panels for Exterior

#### VISUAL SELECTION

Face Profile	Item No. ♦	Description	Dimensions (Inches)	Hanger Spacing* Lbs./LFT		
<b>Prelude® Plus XL® Fire Guard™ (Red Numbers are Fire Guard Items)</b>				<b>2 Ft.</b>	<b>4 Ft.</b>	<b>5 Ft.</b>
15/16"	<b>HD8201</b> _ _	12' HD Main Beam	144 x 15/16 x 1-11/16"	12.75	16.73	–
15/16"	<b>XL8240</b> _ _	4' Cross Tee	48 x 15/16 x 1-1/2"	12.75	–	–
15/16"	<b>XL8223</b> _ _	2' Cross Tee	24 x 15/16 x 1-1/2"	38.63	–	–
<b>Molding</b>						
7/8"	<b>HD7801</b> _ _	10' Hemmed Angle Molding	120 x 7/8 x 7/8"	–	–	–
<b>Prelude XL for Exterior Applications</b>						
15/16"	<b>7301G90A</b> _ _	12' HD Main Beam	144 x 15/16 x 1-11/16"	–	16.50	6.92
15/16"	<b>XL7341G90A</b> _ _	4' Cross Tee	48 x 15/16 x 1-11/16"	–	16.59	–
15/16"	<b>XL7321G90A</b> _ _	2' Cross Tee	24 x 15/16 x 1-11/16"	–	74.38	–
<b>Molding</b>						
7/8"	<b>HD7801G90</b> _ _	10' Hemmed Angle Molding	120 x 7/8 x 7/8"	–	–	–
<b>Accessories</b>						
2"	<b>BACG90A</b>	Wind Uplift Clip	N/A	–	–	–
	<b>UHDC</b>	Universal Hold-down Clip	N/A	–	–	–

\* Simple Span

♦ Add 2-letter color suffix to item number when specifying or ordering. Available in White Steel and Tech Black (ex. HD7801G90A **BL**)

#### PERFORMANCE

Fire Guard	Seismic Category
Dots represent high level of performance.	
•	•
•	•
•	•
–	–
–	–
–	–

#### PACKAGING

Pcs./ Ctn.	LFT/ Ctn.
20	240
60	240
60	120
30	300
20	240
60	240
60	120
30	300
250	–
1000	–

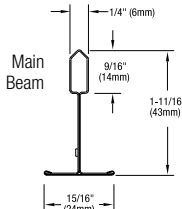
ASTM Class  
HD - Heavy-duty  
ID - Intermediate-duty  
LD - Light-duty

#### DETAILS For more information on Prelude Plus XL Fire Guard, see submittal BPCS-3156.



PRELUDE XL Main Beam

PRELUDE XL Cross Tee



TechLine / 1 877 276-7876  
[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)  
(search: suspensionsystems)  
BPCS-3156-918

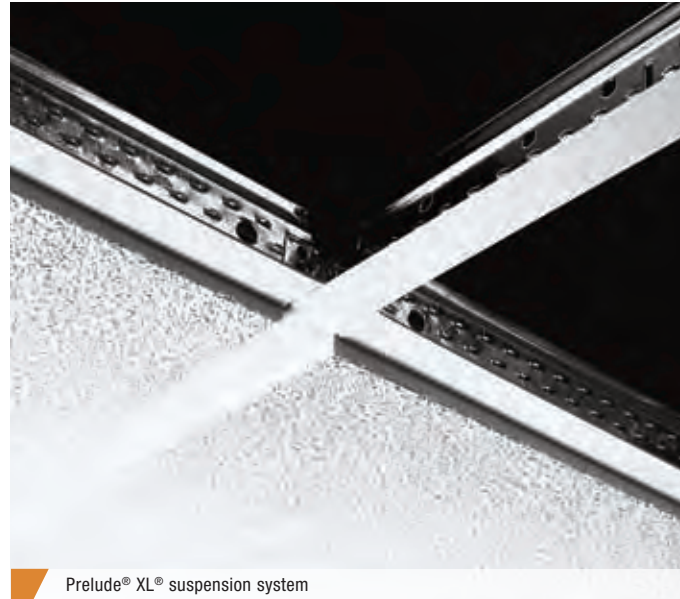
LEED® is a registered trademark of the U.S. Green Building Council  
All other trademarks used herein are the property of AWI Licensing LLC  
and/or its affiliates © 2018 AWI Licensing LLC  
Printed in the United States of America



# PRELUDE® XL®

## PRELUDE XL High Recycled Content

### Exposed Tee System



Prelude® XL® suspension system

This hot-dipped galvanized steel 15/16" suspension system offers high recycled content for improved LEED® credits.

#### KEY SELECTION ATTRIBUTES

- **Seismic Rx®** Suspension System saves time and money; Armstrong Ceilings offers an ICC-ES approach to installations (ESR-1308)
- Prelude® XL® is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 449)
- **PeakForm®** profile increases strength and stability for improved performance during installation
- **SuperLock™** main beam clip is engineered for a strong, secure connection and fast, accurate alignment confirmed with an audible click; easy to remove/relocate
- Hot-dipped galvanized coating inhibits red rusting better than electrogalvanized or painted systems
- 10-Year Limited System Warranty; 30-Year Limited Ceiling Systems Warranty when used with **HumiGuard® Plus** products
- **Made-to-Order** main beams and cross tees can be ordered for your project needs in one carton minimum
- Available with TrioGuard® coating that resists dirt, bacteria, mold, mildew, and color fading
- XL® staked-on end detail provides secure locked connection
- Fire Guard™ options offer UL design fire-rated performance
- Blizzard White powder-coated finish
- Linear lighting integration is easy with made-to-order main-beam-to-cross-tee adapters, rout spacing, miter spacing, and short cross tees (3" to 6" lengths).
- 10-Year replacement items available



#### VISUAL SELECTION

Face Profile	Item No. ♦	Description	Rout Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./LFT
<b>Prelude® XL® (Red Numbers are Fire Guard™ Items)</b>					
15/16"	<b>7301</b> _ _ † † †	12' HD Main Beam	6" O.C.	144 x 15/16 x 1-11/16"	16.73
	<b>7301HRC</b>				8.73
	<b>8301</b>				
15/16"	<b>7300</b> _ _ ❖ † †	12' ID Main Beam	6" O.C.	144 x 15/16 x 1-11/16"	13.5
	<b>8300</b> _ _ †				6.35
15/16"	<b>7305</b> _ _ ❖	140" HD Main Beam	10" O.C.	140 x 15/16 x 1-11/16"	10.73
15/16"	<b>7306</b> _ _ ❖	132" HD Main Beam	10", 30", 50", 56", 76", 96", 116", 122"	132 x 15/16 x 1-11/16"	16.73
15/16"	<b>7307</b> _ _ ❖	126" HD Main Beam	10", 30", 50", 70", 90", 110", 116"	126 x 15/16 x 1-11/16"	–
15/16"	<b>7302</b> _ _ ❖	10' ID Main Beam	6" O.C.	120 x 15/16 x 1-11/16"	13.5
15/16"	<b>XL7380</b> _ _ ❖	8' Cross Tee	12" O.C.	96 x 15/16 x 1-11/16"	12.12**
15/16"	<b>XL7390</b> _ _ ❖	6' Cross Tee	12" O.C.	72 x 15/16 x 1-11/16"	12.24*

#### PERFORMANCE

Fire Guard™	Seismic Category
Dots represent high level of performance.	
–	•
–	•
•	•
–	–
•	–
–	•
–	–
–	•
–	–
–	•
–	•

#### PACKAGING

Pcs./ Ctn.	LFT/ Ctn.
20	240
20	240
20	240
20	240
20	233
20	220
20	210
20	200
20	160
20	120

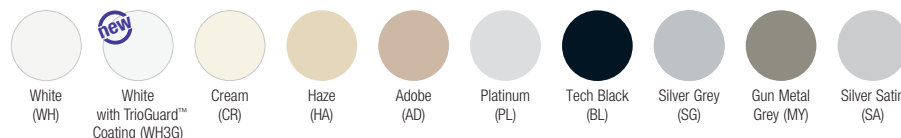
\* Simple Span  
 \*\* Hanger Wire Support Mid-Span  
 † Items available in Standard, Premium, and Blizzard White powder-coated finish  
 †† Items available with TrioGuard® coating in White (WH3G)  
 ❖ Items available in Blizzard White powder-coated finish  
 ♦ When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7301HA – Haze)

NOTE: Additional Prelude XL items for TechZone® Ceiling Systems are listed in the TechZone Technical Guide (BPCS-4486). Available online at [armstrongceilings.com/techzone](http://armstrongceilings.com/techzone)

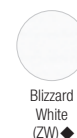
ASTM Class  
 HD - Heavy-duty  
 ID - Intermediate-duty  
 LD - Light-duty

#### COLORS

##### Standard

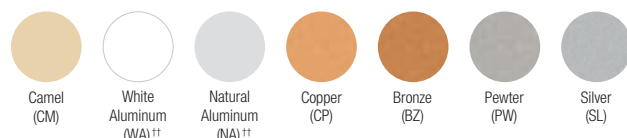


##### Powder-Coated Finish



Available in any color!

##### Premium



♦ Capping only  
 NOTE: Items 8300, XL8340, XL8323 available in Black (BL) or White (WH) only

SUSPENSION SYSTEMS



# PRELUDE® XL®

## PRELUDE XL High Recycled Content

### Exposed Tee System

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

**SUSTAIN**<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO **63%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED**®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

### VISUAL SELECTION

Face Profile	Item No. ♦	Description	Roof Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./LTF
<b>Prelude® XL® (Red Numbers are Fire Guard™ Items)</b>					<b>4 Ft. 5 Ft.</b>
15/16"	<b>XL7357</b> _ _ ♦	5' Cross Tee	6", 12", 24", 30", 36", 48", 54"	60 x 15/16 x 1-11/16"	-
15/16"	<b>XL7358</b> _ _ ♦	5' Cross Tee	6", 20", 30", 40", 50"	60 x 15/16 x 1-11/16"	-
15/16"	<b>XL7341</b> _ _ ♦ ††	4' Cross Tee	12" O.C.	48 x 15/16 x 1-11/16"	16.89
	<b>XL7341HRC</b>				
	<b>XL8341</b>				
15/16"	<b>XL7340</b> _ _ ♦	4' Cross Tee	12" O.C.	48 x 15/16 x 1-11/16"	12.25
	<b>XL8340</b> _ _ †				
15/16"	<b>XL7342</b> _ _ † †	4' Cross Tee	12" O.C.	48 x 15/16 x 1-1/2"	7.8
15/16"	<b>XL7348</b> _ _ ♦	4' Cross Tee	12" O.C.	48 x 15/16 x 1-3/8"	6.78
15/16"	<b>XL7330</b> _ _ †	3' Cross Tee	-	36 x 15/16 x 1-11/16"	20.3 at 3'
15/16"	<b>XL7378</b> _ _ ♦	30" Cross Tee	-	30 x 15/16 x 1-3/8"	16.54 at 2.5'
15/16"	<b>XL7328</b> _ _ † †	2' Cross Tee	-	24 x 15/16 x 1-3/8"	36.0 at 2'
	<b>XL8323</b> _ _ †				
15/16"	<b>XL8320HRC</b>	2' Cross Tee	-	24 x 15/16 x 1-11/16"	61.33 at 2'
	<b>XL8320</b> † †				
15/16"	<b>XL7368</b> _ _ ♦	20" Cross Tee	-	20 x 15/16 x 1-3/8"	36.0 at 1.67'
15/16"	<b>XL7398</b> _ _ ♦	18" Cross Tee	-	18 x 15/16 x 1-3/8"	-
15/16"	<b>XL7318</b> _ _ ♦	1' Cross Tee	-	12 x 15/16 x 1-3/8"	36.0 at 1'
15/16"	<b>XL7304</b> _ _ ♦	4" Cross Tee	-	4 x 15/16 x 1-3/8"	-

Size Capabilities	Main Beams Length	Cross Tees Length
15/16" <b>1 CTN MIN</b> Made-to-Order Sizes or Colors (2 Wks)*	24" - 144" Roof spacing 3" from ends, 6" thereafter * NOTE: Up to 6 Weeks for Color & Size Combinations	3" - 144"

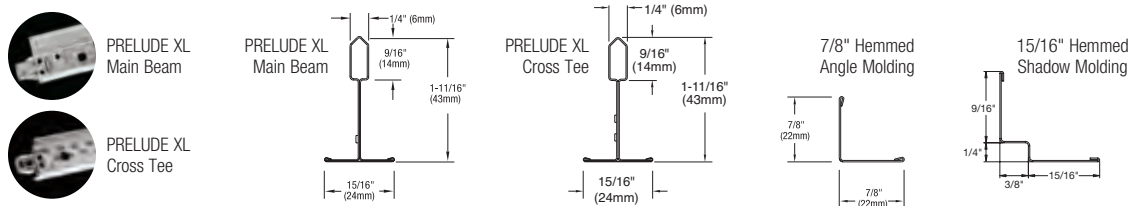
Made-to-Order main beams and cross tees can be ordered with special sizes, roof spacing, and colors for your project needs in one carton minimums.

Item No. ♦	Description	Length	(A) Flange	(B) Height	(C) Reveal	(D) Reveal	Pcs./ Ctn.	LFT/ Ctn.
<b>Molding</b>								
<b>7800</b> _ _ † †	12' Hemmed Angle Molding	144"	7/8"	7/8"	-	-	30	360
<b>7800HRC</b>								
<b>7808</b> _ _ † †	10' Hemmed Angle Molding	120"	2"	2"	-	-	10	100
<b>780812</b> _ _ ♦	12' Hemmed Angle Molding	144"	2"	2"	-	-	10	120
<b>7807</b>	10' Hemmed Angle Molding	120"	2"	1"	-	-	10	100
<b>7875</b> _ _ ♦	10' Shadow Molding	120"	3/4"	15/16"	1/2"	-	30	300
<b>7877</b> _ _ ♦***	10' Shadow Molding	120"	15/16"	15/16"	1/4"	-	30	300
<b>7878</b> _ _ ♦***	10' Shadow Molding	120"	15/16"	15/16"	3/8"	-	30	300
<b>7897</b> _ _ ♦***	10' Shadow Molding	120"	15/16"	15/16"	1/2"	-	30	300
<b>7888</b>	10' Shadow Molding	120"	9/16"	15/16"	3/8"	1/4"	30	300
<b>7850</b> _ _ ♦	10' Hemmed Angle Molding	120"	1-1/8"	7/8"	-	-	30	300
<b>7851</b> _ _ ♦	12' Hemmed Angle Molding	144"	1-1/8"	7/8"	-	-	30	360

\* Simple Span \*\* Hanger Wire Support Mid-Span \*\*\* Suitable for IBC Category D,E,F installations using Armstrong® Seismic Rx® suspension system and BERC2 Clip  
 † Items available in Standard, Premium, and Blizzard White powder-coated finish  
 †† Items available with TrioGuard™ coating in White (WH3G)  
 ♦ Items available in Blizzard White powder-coated finish  
 ♦ When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7800HΔ - Haze)

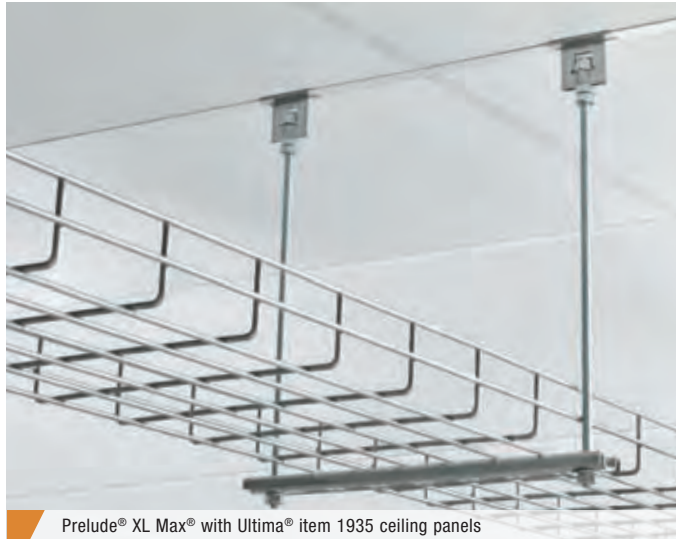
### ACCESSORIES For accessories see pages 472-473

### DETAILS For more information, see submittal CS-3344.



SUSPENSION SYSTEMS

# PRELUDE® XL MAX® Exposed Tee System



Prelude® XL Max® with Ultima® item 1935 ceiling panels

This suspension system is designed to offer maximum air flow management, load-carrying capacity, and adaptability in data center applications.

## KEY SELECTION ATTRIBUTES

### Prelude XL Max 15/16" Suspension System

- 24" x 24" and 24" x 44" suspension system supports point loads up to 300 lbs. using 3/8" threaded rod and integrated hanging clips to provide:
  - Allows for flexible and reconfigurable overhead cable trays, electrical distribution, and hot aisle containment to meet client needs without a separate strut channel system
  - Eliminates unsightly threaded rod penetrations through the ceiling plane for improved access and aesthetics
  - Reduced ceiling penetrations help minimize unwanted air infiltration
- Prelude® XL MAX® is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 449)

- Suspension system meets ASTM C635, ASTM C636, ASTM E580 with Seismic D, E, F available
- Custom colors available to coordinate with Ultima® Create!™ ceiling panels
- 30-Year Limited System Warranty
- Standard 24" x 24" and 24" x 44" grid layouts allow for use of standard size lighting and ceiling tile options

## TYPICAL APPLICATIONS

- Data Centers
- Laboratories
- Hospitals

## VISUAL SELECTION

Item No.	Face Profile	Description	Dimensions (Inches)	Max Loading* Lbs./Lin. Ft.	
				4 Ft.	2 Ft.
<b>Prelude® XL Max®</b>					
<b>730145</b>	15/16"	12' HD Main Beam	144 x 15/16 x 2-7/16"	40.17	135.5
<b>XL7345</b>	15/16"	4' Cross Tee	48 x 15/16 x 2-7/16"	40.17	–
<b>XL7325</b>	15/16"	2' Cross Tee	24 x 15/16 x 2-7/16"	–	93.82
<b>Molding</b>					
<b>SWA9878HRC</b>	7/8"	12' Structural Wall Angle	144 x 7/8 x 7/8"	–	–

\* Simple Span

## PERFORMANCE

Fire Guard™	Seismic Category
Dots represent high level of performance.	
–	•
–	•
–	•
–	•

ASTM Class  
HD - Heavy-duty

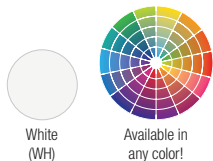
## PACKAGING

Pcs./ Ctn.	LFT/ Ctn.
10	120
30	120
30	60
12	144

ID - Intermediate-duty  
LD - Light-duty

## COLORS

Due to printing limitations, shade may vary from actual product.



White (WH)

Available in any color!

White is standard color for main beams and cross tees. All clips are unfinished. Custom colors and finishes are available for main beams, cross tees, and load connector clips to coordinate with Create!™ ceiling panels and custom project colors.

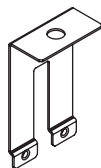
For custom layout information and technical guidelines, contact TechLine customer support at 1 877 276 7876

## ACCESSORIES

**PMHC – Prelude Max Hanging Clip** – Used to carry the ceiling system with 3/8" threaded rod from structure.

\* Machine screws, Heavy Hex Nut, and Locknut included

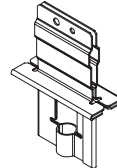
PMHC – 150 pcs  
FZPMHC – 50 pcs



**PMLC – Prelude XL Max Load Connector** – Used to support bus bars, cable trays, and other components with 3/8" threaded rod from the suspension system face.

\* Heavy Hex Nut & Locknut included

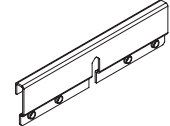
PMLC – 100 pcs  
FZPMLC – 50 pcs



**IJC – Intersection Joint Clip** – Used to connect all cross tees together for rigid connection.

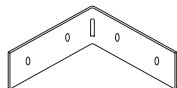
\* Machine screws included

IJC – 250 pcs  
FZIJC – 50 pcs



**XTAC – Cross Tee Adapter Clip** – Securely attaches cross tees or main beams to the structural wall molding around the perimeter of the ceiling installation.

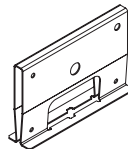
XTAC – 100 pcs  
FZXTAC – 50 pcs



**TLMBS – Top Lock Main Beam Splice Clip** – Locks two main beams together for a secure connection.

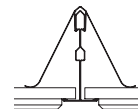
10 pcs (included with item 730145 Main Beam)

FZTLMBS – 50 pcs

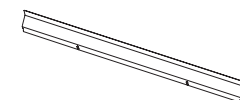


**PMHDC – Prelude XL Max Hold Down Clip** – Attaches to the top bulb of the Prelude XL Max suspension system to hold ceiling panels in place; helps to prevent ceiling panel movement.

PMHDC – 100 pcs  
FZPMHDC – 50 pcs



**LSB – Lateral Support Bar**  
\* Seismic Zone DEF Only



LSB12HRC – 10 pcs/120 LF  
LSB10HRC – 10 pcs/100 LF  
LSB8HRC – 10 pcs/80 LF



# PRELUDE® XL MAX® Exposed Tee System

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

25% RECYCLED CONTENT

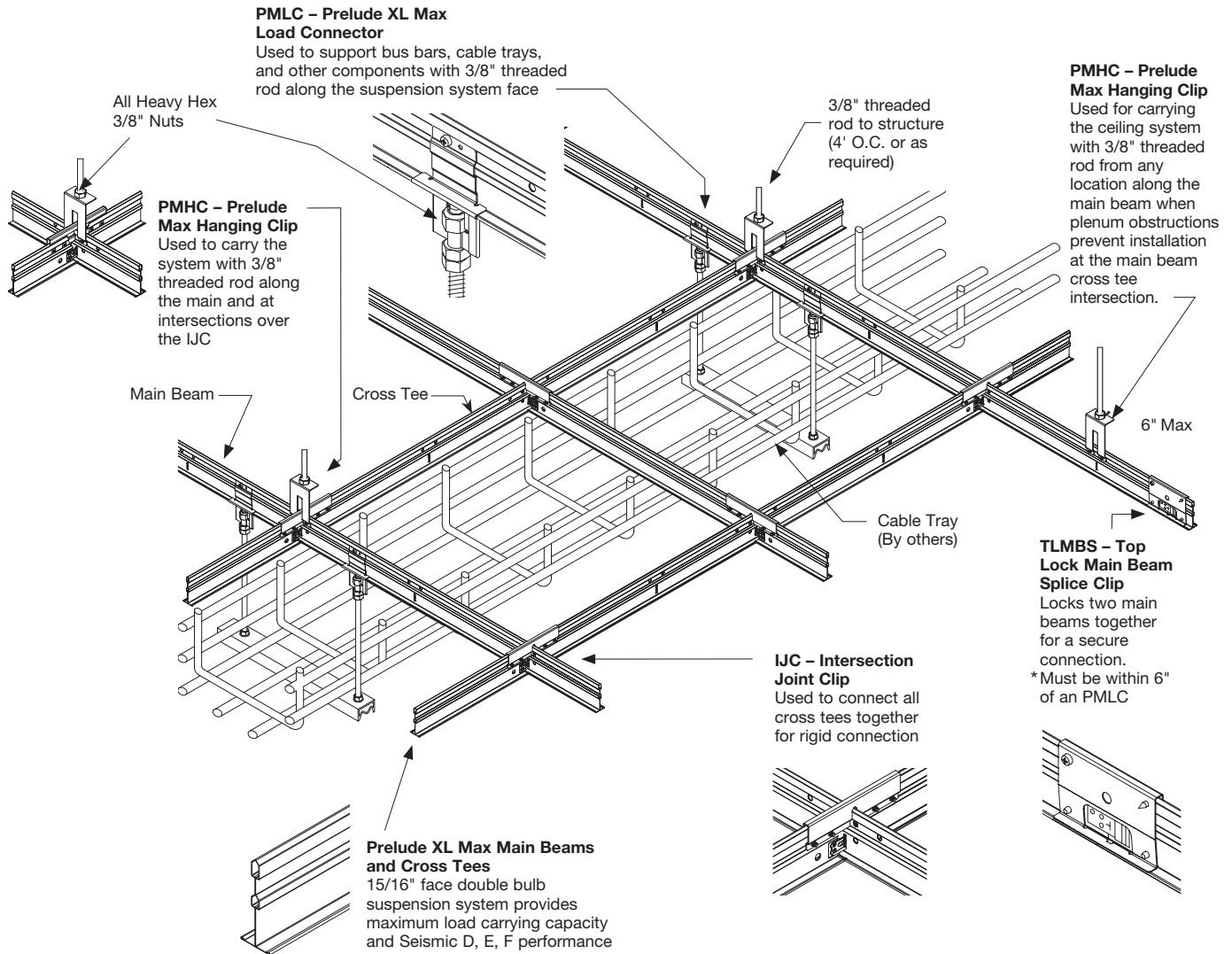
LEED®

- energy management
- construction waste to right
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

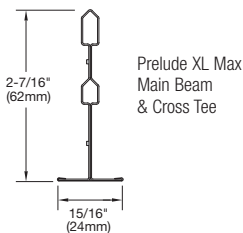
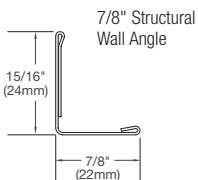
Calculate LEED contribution at  
armstrongceilings.com/greengenie

LOCATION DEPENDENT

## PRELUDE® XL MAX® INSTALLATION OVERVIEW



## DETAILS



## PHYSICAL DATA

**Material**  
Hot-dipped galvanized steel

**Surface Finish**  
Baked polyester paint or powder coated

Manufactured and tested in accordance with ASTM C635

**Face Dimension**  
15/16"

**Profile**  
Exposed tee

**Cross Tee/Main Beam Interface**  
Override

**End Detail**  
Main Beam: Staked-on clip  
Cross Tee: Staked-on clip

**Duty Classification**  
Heavy-duty

# SILHOUETTE® XL® 1/4" Reveal

## Slotted Tee System

**Declare™**  
Living Building  
Challenge Compliant

**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems



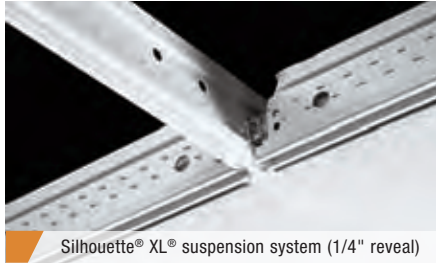
UP TO **30%** RECYCLED CONTENT

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengene](http://armstrongceilings.com/greengene)

Sophisticated slotted 9/16" suspension system with a narrow 1/4" reveal.



Silhouette® XL® suspension system (1/4" reveal)

### KEY SELECTION ATTRIBUTES

- **Seismic Rx®** Suspension System saves time and money
- Part of Sustain™ portfolio; meets most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 449)
- Hot-dipped galvanized coating inhibits red rusting
- Rotary-stitched for torsional strength
- XL® staked-on end detail
- 10-Year Limited System Warranty; 30-Year Limited Ceiling Systems Warranty when used with **HumiGuard® Plus** products
- **Made-to-Order** main beams and cross tees can be ordered
- 10-Year replacement items available

LOCATION DEPENDENT

### COLORS

Standard Finish

Powder-Coated Finish



White (WH)



Blizzard White (ZW)  
Items with ❖



Available in any color!



### VISUAL SELECTION

Face Profile	Item No. ♦	Description	Roof Spacing	Notching	Dimensions (Inches)	Hanger Spacing* Lbs./LFT	4 Ft.	5 Ft.
<b>Silhouette® XL® – 1/4" Reveal</b>								
9/16"	<b>7601</b> _ ❖	12' HD Main Beam – Notched 24" O.C.	24" O.C.		144 x 9/16 x 1-3/4"	16.35	7.80	
9/16"	<b>7612</b> _ ❖	12' HD Main Beam – Unnotched	–		144 x 9/16 x 1-3/4"	16.35	7.80	
9/16"	<b>7600</b> _ ❖	12' ID Main Beam – Notched 24" O.C.	24" O.C.		144 x 9/16 x 1-3/4"	13.10	6.61	
9/16"	<b>7602</b> _ ❖	10' ID Main Beam – Notched 24" O.C.	24" O.C.		120 x 9/16 x 1-3/4"	13.10	6.61	
9/16"	<b>7603</b> _ ❖	12' ID Main Beam – Notched 48" O.C.	48" O.C.		144 x 9/16 x 1-3/4"	13.10	6.61	
9/16"	<b>7606</b> _ ❖	10' ID Main Beam – Notched 30" O.C.	30" O.C.		120 x 9/16 x 1-3/4"	13.10	6.61	
9/16"	<b>XL7680</b> _ ❖	8' Cross Tee – Unnotched	–		96 x 9/16 x 1-3/4"	12.59	–	
9/16"	<b>XL7690</b> _ ❖	6' Cross Tee – Unnotched	–		72 x 9/16 x 1-3/4"	12.59	–	
9/16"	<b>XL7650</b> _ ❖	5' Cross Tee – Unnotched	–		60 x 9/16 x 1-3/4"	–	6.09	
9/16"	<b>XL7655</b> _ ❖	5' Cross Tee – Center-notched, both sides	–		60 x 9/16 x 1-3/4"	–	5.71	
9/16"	<b>XL7654</b> _ ❖	5' Cross Tee – Notched, both sides at 20", 40"	–		60 x 9/16 x 1-3/4"	–	5.71	
9/16"	<b>XL7651</b> _ ❖	5' Cross Tee – Notched, one side at 20", 40"	–		60 x 9/16 x 1-3/4"	–	5.71	
9/16"	<b>XL7640</b> _ ❖	4' Cross Tee – Unnotched	–		48 x 9/16 x 1-3/4"	13.53	–	
9/16"	<b>XL7645</b> _ ❖	4' Cross Tee – Center-notched, both sides	–		48 x 9/16 x 1-3/4"	12.85	–	
9/16"	<b>XL7646</b> _ ❖	4' Cross Tee – Center-notched, one side	–		48 x 9/16 x 1-3/4"	13.21	–	
9/16"	<b>XL7670</b> _ ❖	30" Cross Tee – Unnotched	–		30 x 9/16 x 1-3/4"	39.86 at 2.5'	–	
9/16"	<b>XL7620</b> _ ❖	2' Cross Tee – Unnotched	–		24 x 9/16 x 1-3/4"	69.69	71.66 at 2'	
9/16"	<b>XL7610</b> _ ❖	1' Cross Tee – Unnotched	–		12 x 9/16 x 1-3/4"	69.69	71.66	
9/16"	<b>XL7606</b> _ ❖	6" Cross Tee – Unnotched	–		6 x 9/16 x 1-3/4"	–	–	
9/16"	<b>XL7604</b> _ ❖	4" Cross Tee – Unnotched	–		4 x 9/16 x 1-3/4"	–	–	

Size Capabilities	Main Beams Length	Cross Tees Length						
9/16"	24" – 144" Rout spacing 3" from ends, 6" thereafter * NOTE: Up to 6 Weeks for Color & Size Combinations	3" – 144"	–	–	–	–	–	–

1 CTN MIN  
Made-to-Order  
Sizes or  
Colors  
(2 Wks)\*

### PERFORMANCE PACKAGING

Fire Guard™	Seismic Category	Pcs./ Ctn.	LFT/ Ctn.
–	•	20	240
–	•	20	240
–	–	20	240
–	–	20	200
–	–	20	240
–	–	20	200
–	•	20	160
–	•	20	120
–	•	30	150
–	•	30	150
–	•	30	150
–	•	60	240
–	•	60	240
–	•	60	150
–	•	60	120
–	•	120	120
–	•	60	30
–	•	60	20

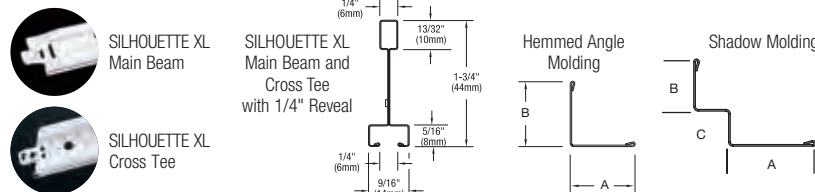
Dots represent high level of performance.

ASTM Class  
HD - Heavy-duty  
ID - Intermediate-duty  
LD - Light-duty

Made-to-Order main beams and cross tees can be ordered with special sizes, rout spacing, and colors for your project needs in one carton minimums.

### ACCESSORIES For accessories see pages 472-473

### DETAILS For more information, see submittal BPCS-3157.



NOTE: Additional Silhouette 1/4" Reveal items for TechZone® Integrated Ceiling System are listed in the TechZone Technical Guide (BPCS-4486). Available online at [armstrongceilings.com/techzone](http://armstrongceilings.com/techzone)

### Suggested Wall Moldings & Shadow Moldings

Details on pages 469-471

Item No.	Description
<b>7804</b> _ ❖	12' Hemmed Angle Molding
<b>7873</b> _ ❖	10' Shadow Molding
<b>7877</b> _ ❖	10' Seismic Shadow Molding

- \* Simple Span
- \*\* Suitable for Category D, E, F Seismic Installation with BERC2 clip
- ❖ All items available in Blizzard White powder-coated finish
- ♦ When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7601ZW – Blizzard White)

SUSPENSION SYSTEMS



# SILHOUETTE® XL® 1/8" Reveal

## Slotted Tee System

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO 30% RECYCLED CONTENT

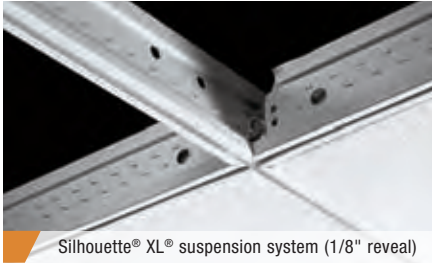
Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED<sup>®</sup>

- energy management
- construction waste to reuse
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- low-toxic materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

Sophisticated slotted 9/16" suspension system with a slim 1/8" reveal.



Silhouette® XL® suspension system (1/8" reveal)

### KEY SELECTION ATTRIBUTES

- Seismic Rx® Suspension System saves time and money
- Part of Sustain™ portfolio; meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 449)
- Hot-dipped galvanized coating inhibits red rusting
- Rotary-stitched for additional torsional strength and stability
- XL® staked-on end detail
- 10-Year Limited System Warranty; 30-Year Limited Ceiling Systems Warranty when used with HumiGuard® Plus products
- Made-to-Order main beams and cross tees can be ordered
- 10-Year replacement items available



### COLORS

Standard Finish

Powder-Coated Finish



White (WH)



Blizzard White (ZW)  
Items with ❖



Available in any color!

### VISUAL SELECTION

Face Profile	Item No. ♦	Description	Rout Spacing	Notching	Dimensions (Inches)	Hanger Spacing*	
						Lbs./LFT	Lbs./LFT
<b>Silhouette® XL® – 1/8" Reveal</b>						<b>4 Ft.</b>	<b>5 Ft.</b>
9/16"	<b>76018</b> _ ❖	12' HD Main Beam – Notched 24" O.C.	24" O.C.		144 x 9/16 x 1-3/4"	16.35	7.80
9/16"	<b>76128</b> _ ❖	12' HD Main Beam – Unnotched	–		144 x 9/16 x 1-3/4"	16.35	7.80
9/16"	<b>76008</b> _ ❖	12' ID Main Beam – Notched 24" O.C.	24" O.C.		144 x 9/16 x 1-3/4"	13.10	6.61
9/16"	<b>76028</b> _ ❖	10' ID Main Beam – Notched 24" O.C.	24" O.C.		120 x 9/16 x 1-3/4"	13.10	6.61
9/16"	<b>76038</b> _ ❖	12' ID Main Beam – Notched 48" O.C.	48" O.C.		144 x 9/16 x 1-3/4"	13.10	6.61
9/16"	<b>76068</b> _ ❖	10' ID Main Beam – Notched 30" O.C.	30" O.C.		120 x 9/16 x 1-3/4"	13.10	6.61
9/16"	<b>XL76808</b> _ ❖	8' Cross Tee – Unnotched	–		96 x 9/16 x 1-3/4"	12.59	–
9/16"	<b>XL76908</b> _ ❖	6' Cross Tee – Unnotched	–		72 x 9/16 x 1-3/4"	12.59	–
9/16"	<b>XL76508</b> _ ❖	5' Cross Tee – Unnotched	–		60 x 9/16 x 1-3/4"	–	6.09
9/16"	<b>XL76558</b> _ ❖	5' Cross Tee – Center-notched, both sides	–		60 x 9/16 x 1-3/4"	–	5.71
9/16"	<b>XL76408</b> _ ❖	4' Cross Tee – Unnotched	–		48 x 9/16 x 1-3/4"	14.11	–
9/16"	<b>XL76458</b> _ ❖	4' Cross Tee – Center-notched, both sides	–		48 x 9/16 x 1-3/4"	12.60	–
9/16"	<b>XL76468</b> _ ❖	4' Cross Tee – Center-notched, one side	–		48 x 9/16 x 1-3/4"	13.01	–
9/16"	<b>XL76708</b> _ ❖	30" Cross Tee – Unnotched	–		30 x 9/16 x 1-3/4"	47.76	–
9/16"	<b>XL76208</b> _ ❖	2' Cross Tee – Unnotched	–		24 x 9/16 x 1-3/4"	69.69	–
9/16"	<b>XL76108</b> _ ❖	1' Cross Tee – Unnotched	–		12 x 9/16 x 1-3/4"	69.69	–
9/16"	<b>XL76048</b> _ ❖	4" Cross Tee – Unnotched	–		4 x 9/16 x 1-3/4"	–	–

### PERFORMANCE

Fire Guard™	Seismic Category
–	•
–	•
–	–
–	–
–	–
–	•
–	•
–	•
–	•
–	•
–	•
–	•
–	•
–	•

Dots represent high level of performance.

### PACKAGING

Pcs./Ctn.	LFT/Ctn.
20	240
20	240
20	240
20	200
20	240
20	200
20	160
20	120
30	150
30	150
60	240
60	240
60	240
60	150
60	120
120	120
60	20

### Size Capabilities

Size Capabilities	Main Beams Length	Cross Tees Length
9/16" <b>1 CTN MIN</b> Made-to-Order Sizes or Colors (2 Wks)*	24" – 144" Rout spacing 3" from ends, 6" thereafter * NOTE: Up to 6 Weeks for Color & Size Combinations	3" – 144"

Made-to-Order main beams and cross tees can be ordered with special sizes, rout spacing, and colors for your project needs in one carton minimums.

### ACCESSORIES For accessories see pages 472-473

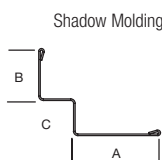
### DETAILS For more information, see submittal BPCS-3078.



SILHOUETTE® XL® Main Beam



SILHOUETTE XL Cross Tee



### Suggested Wall Moldings & Shadow Moldings

Details on pages 469-471

Item No.	Description
<b>7804</b> _ ❖	12' Hemmed Angle Molding
<b>7873</b> _ ❖	10' Shadow Molding
<b>7877</b> _ ❖	10' Seismic Shadow Molding

- \* Simple Span
- \*\* Suitable for Category D, E, F Seismic Installation with BERC2 clip
- ❖ All items available in Blizzard White powder-coated finish
- ♦ When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7804ZW – Blizzard White)

# SINGLESPAN™


## Acoustical Corridor Suspension System



The SingleSpan™ System can eliminate hanger wires

Reduces or eliminates hanger wires for faster, easier installation in crowded plenum spaces

### KEY SELECTION ATTRIBUTES

- SingleSpan™ system allows you to reduce or eliminate hanger wires in acoustical corridor installations
- **PeakForm® Plus** profile adds additional strength and support for longer spans 
- Hot-dipped galvanized coating inhibits red rusting better than electrogalvanized or painted systems
- 10-Year Limited Warranty; 30-Year Limited warranty when used with **HumiGuard® Plus** products
- All components are manufactured from High Recycled Content steel
- High Recycled Content grid can be used with Ultima® HRC, Cirrus® HRC, or Dune™ HRC ceiling panels to create a sustainable ceiling system
- Rotary-stitched during manufacture for additional torsional strength and extra stability during installation; maintains size and shape of reveal when cutting perimeter tees

### TYPICAL APPLICATIONS

- Corridors in:
- Healthcare
  - Offices
  - Education

### COLOR

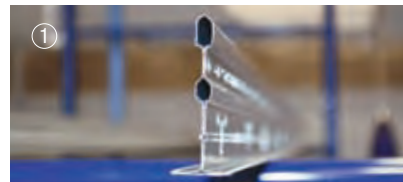


### WHY USE THE SINGLESPAN SUSPENSION SYSTEM?

- Reduces or eliminates hanger wires – perfect for healthcare/education spaces with crowded plenums
- Faster installation helps keep large projects on schedule
- Compatible with all Armstrong® heavy-duty suspension main beams using StrongBack™ Support Hangers
- Seismically tested/approved suspension installation configuration (APMO certified, Evaluation Report #0244)
- Provides improved access to utilities in the plenum post-installation

### HOW THE SINGLESPAN™ SYSTEM WORKS

- 1 Prelude® PeakForm® Plus 15/16" main beams with double bulb construction provide heavy-duty strength and support for maximum load carrying performance.
- 2 For 9/16" applications, add SingleSpan support system to any Armstrong® heavy-duty main beam by attaching StrongBack™ support pieces to them.



- 3 Structural wall angle maximizes the load carrying performance of the SingleSpan system and allows you to reduce or eliminate hanger wires.



### SEISMIC INSTALLATIONS

- 4 The Lateral Support Bar adds seismic performance to the SingleSpan system and functions as:
  - A stabilizer bar
  - Perimeter support wire
  - 2" Wall molding
  - Lateral bracing





# SINGLESPAN™

## Acoustical Corridor Suspension System

UP TO **61%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

### VISUAL SELECTION

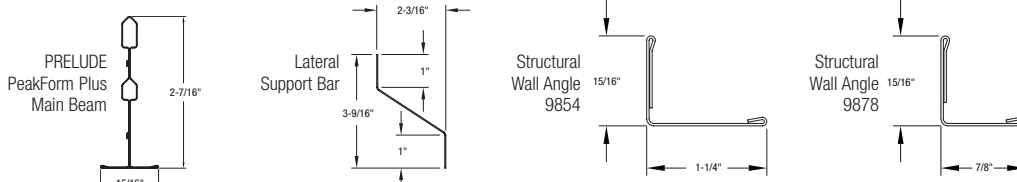
Face Profile	Item No.	Description	Dimensions (Inches)	Hanger Spacing Lbs./LFT				Main Beam O.C. Spacing			Hanger Spacing – Maximum Load in Lbs./SF			Seismic Category DEF	Pcs./ Ctn.	LFT/ Ctn.
				2 Ft.	4 Ft.	5 Ft.	6 Ft.	4 Ft.	5 Ft.	6 Ft.	4 Ft.	5 Ft.	6 Ft.			
<b>SingleSpan™ Prelude® Main Beams with PeakForm® Plus</b>													•	10	120	
15/16"	<b>730144HRC</b>	144" Main Beam	144 x 15/16 x 2.44"	–	41.1	18.6	12.8	24" 48"	20.55 10.27	9.3 4.65*	6.4 3.2					
15/16"	<b>730102HRC</b>	102" Main Beam	102 x 15/16 x 2.44"	–	41.1	18.6	12.8	24" 48"	20.55 10.27	9.3 4.65*	6.4 3.2					
15/16"	<b>730098HRC</b>	98" Main Beam	98 x 15/16 x 2.44"	–	41.1	18.6	12.8	24" 48"	20.55 10.27	9.3 4.65*	6.4 3.2	•	10	81.6		
<b>StrongBack™ Compatible Heavy-duty Main Beam Options (used in combination with StrongBack Support hanger)</b>													•	20	240	
Prelude® 15/16"	<b>7301</b>	12" HD Main Beam	144 x 15/16 x 1-11/16"	–	–	19.93	14.42	24" 48"	–	13.5 6.75*	7.21 3.60					
Suprafine® 9/16"	<b>7501</b>	12" HD Main Beam	144 x 9/16 x 1-11/16"	–	–	19.73	13.66	24" 48"	–	11.9 5.95*	6.85 3.42					
Silhouette® 9/16"	<b>7601 HD</b> <b>76018 HD</b>	HD Main Beam 1/4" reveal HD Main Beam 1/8" reveal	144 x 9/16 x 1-3/4" 144 x 9/16 x 1-3/4"	–	–	18.4	14.78	24" 48"	–	13.05 6.52*	7.35 3.67					
Interlude® 9/16"	<b>6101</b>	12" HD Main Beam	144 x 9/16 x 1-3/4"	–	–	17.46	12.33	24" 48"	–	12.5 6.12*	7.25 3.62	•	20	240		
<b>StrongBack Support Hangers (use in combination with 9/16" Heavy-duty Main Beams)</b>													–	200	–	
	<b>SH12</b>	StrongBack Support Hanger	144 x 2 x 2"	–	–	–	–	–	–	–	–					
<b>Cross Tees (More cross tees available. See specific suspension system pages in this catalog.)</b>													•	60	240	
Prelude® XL 15/16"	<b>XL7341</b>	4' Cross Tee	48 x 15/16 x 1-11/16"	–	16.59	–	–	–	–	–	–					
	<b>XL7328</b>	2' Cross Tee	24 x 15/16 x 1-3/8"	40.45	–	–	–	–	–	–	–					
Suprafine XL 9/16"	<b>XL7549</b>	4' Cross Tee	48 x 9/16 x 1-11/16"	–	16.00	–	–	–	–	–	–					
	<b>XL7520</b>	2' Cross Tee	24 x 9/16 x 1-1/2"	51.83	–	–	–	–	–	–	–					
Silhouette XL 9/16"	<b>XL7645</b>	4' Cross Tee (Center-notched, both sides)	48 x 9/16 x 1-3/4"	–	12.00	–	–	–	–	–	–					
	<b>XL7640</b>	4' Cross Tee (Unnotched)	48 x 9/16 x 1-3/4"	–	13.53	–	–	–	–	–	–					
Silhouette XL 9/16"	<b>XL76458</b>	4' Cross Tee (Center-notched, one side)	48 x 9/16 x 1-3/4"	–	12.00	–	–	–	–	–	–					
	<b>XL76208</b>	2' Cross Tee (Unnotched)	24 x 9/16 x 1-3/4"	69.69	–	–	–	–	–	–	–					
Interlude XL 9/16"	<b>XL6140</b>	4' Cross Tee	48 x 9/16 x 1-3/4"	–	12.60	–	–	–	–	–	–					
	<b>XL6120</b>	2' Cross Tee	24 x 9/16 x 1-3/4"	66.89	–	–	–	–	–	–	–					

Item No.	Description	Dimensions (Inches)	Pcs./ Ctn.	LFT/ Ctn.
<b>SingleSpan Lateral Support Bar</b>				
<b>LSB4HRC</b>	48" Lateral Support Bar	48 x 2.16"	10	40
<b>LSB6HRC</b>	72" Lateral Support Bar	72 x 2.16"	10	60
<b>LSB8HRC</b>	96" Lateral Support Bar	96 x 2.16"	10	80
<b>LSB10HRC</b>	120" Lateral Support Bar	120 x 2.16"	10	100
<b>LSB12HRC</b>	144" Lateral Support Bar	144 x 2.16"	10	120

\* Requires the use of XL7340 or similar load rating cross tee

Face	Item No.	Description	Dimensions (Inches)	Pcs./ Ctn.	LFT/ Ctn.
<b>SingleSpan Structural Wall Angle</b>					
12"	<b>SWA9854HRC</b>	Structural Wall Angle	144 x 1-1/4 x 15/16"	12	144
12"	<b>SWA9878HRC</b>	Structural Wall Angle	144 x 7/8 x 15/16"	12	144
Structural wall angle is required when hanger wires are greater than 24" from the wall.					
<b>Clips</b>				<b>Pcs./Ctn.</b>	
	<b>XTAC</b>	Cross Tee Adapter Clip	–	100	
	<b>BERC2</b>	Beam End Retaining Clip	–	200	

### DETAILS For more information, see submittal CS-3344.



# SONATA® XL®

## Dimensional Tee System

UP TO **30%** RECYCLED CONTENT

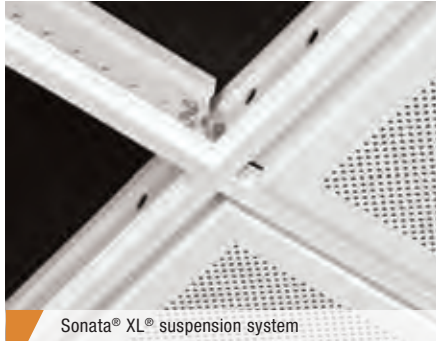
Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

This sophisticated dimensional 9/16" suspension system offers co-extruded steel construction for crisp edge profile detailing.

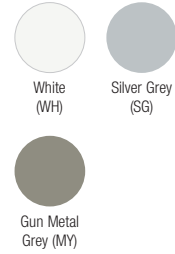


Sonata® XL® suspension system

### KEY SELECTION ATTRIBUTES

- **Seismic Rx®** Suspension System saves time and money; Armstrong Ceilings offers an ICC-ES approach to installations (ESR-1192)
- Co-extruded steel provides crisp edge and profile detailing and excellent corrosion resistance
- XL® staked-on end detail provides secure locked connection; easy to remove, reuse, and relocate
- Accommodates virtually any fixture, especially 1' x 4' light fixtures
- 10-Year Limited Warranty; 30-Year Limited Warranty with **HumiGuard® Plus** products
- Some items available in metric sizes

**COLORS** Due to printing limitations, shade may vary from actual product.



### VISUAL SELECTION

Face Profile	Item No. ♦	Description	Dimensions (Inches)	Hanger Spacing* Lbs./LFT			
				2 Ft.	30"	4 Ft.	5 Ft.
<b>Sonata® XL®</b>							
9/16"	<b>6501</b> __	12' HD Main Beam	144 x 9/16 x 1-13/16"	-	-	19.42	-
9/16"	<b>XL6541</b> __	4' Cross Tee	48 x 9/16 x 1-13/16"	-	-	15.88	-
9/16"	<b>XL6521</b> __	2' Cross Tee	24 x 9/16 x 1-13/16"	42.0	-	-	-
<b>Molding</b>							
9/16"	<b>7821</b>	12' Shadow Molding	144 x 9/16 x 15/16 x 3/16 x 3/8"	-	-	-	-

\* Simple Span  
 ♦ When specifying or ordering, add 2-letter color suffix to item number (ex. 65101 S G)

### PERFORMANCE

Fire Guard™	Seismic Category
	
Dots represent high level of performance.	
-	•
-	•
-	•
-	-

### PACKAGING

Pcs./ Ctn.	LFT/ Ctn.
50	144
36	144
36	72
30	360

ASTM Class  
 HD - Heavy-duty  
 ID - Intermediate-duty  
 LD - Light-duty

SUSPENSION SYSTEMS

**DETAILS** For more information, see submittal BPCS-3209.

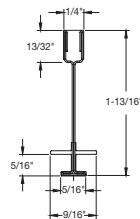


SONATA Main Beam

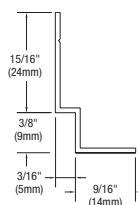


SONATA Cross Tee

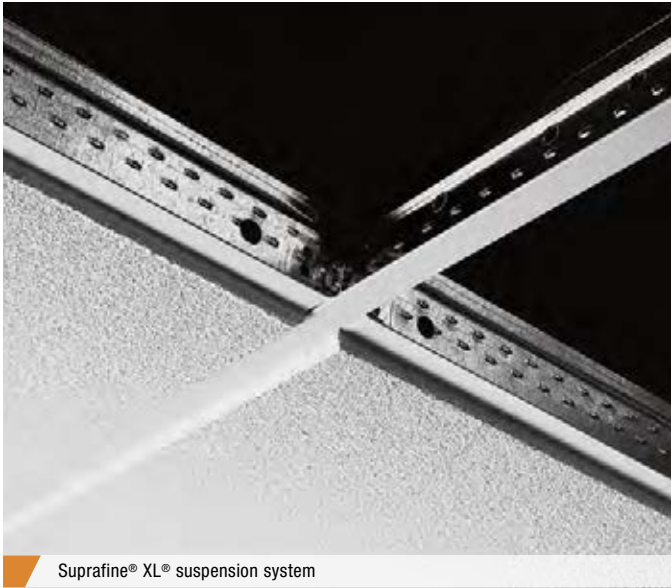
SONATA Main Beam and Cross Tee



SONATA Shadow Molding




# SUPRAFINE® XL® and ML SUPRAFINE XL High Recycled Content Exposed Tee System



Suprafine® XL suspension system

This versatile 9/16" suspension system combines durability and stability with a refined appearance.

## KEY SELECTION ATTRIBUTES

- **Seismic Rx®** Suspension System saves time and money; Armstrong Ceilings offers an ICC-ES approach to installations (ESR-1308)
- Suprafine® suspension systems are part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 449)
- **PeakForm®** profile increases strength and stability 
- **SuperLock™** main beam clip is engineered for a strong, secure connection and fast, accurate alignment
- Hot-dipped galvanized coating inhibits red rusting better than other systems
- Some items available in metric sizes
- 1-11/16" web height keeps components vertical and stable at light fixture interface
- 10-Year Limited System Warranty; 30-Year Limited Ceiling Systems Warranty when used with **HumiGuard® Plus** products
- Available with TrioGuard® coating that resists dirt, bacteria, mold, mildew, and color fading
- **Made-to-Order** main beams and cross tees can be ordered with special sizing and rout spacing for your project needs in one carton minimum
- Fire Guard™ options offer UL design fire-rated performance.
- Linear lighting integration is easy with made-to-order main-beam-to-cross-tee adapters, rout spacing, miter spacing, and short cross tees (3" to 6" lengths)
- 10-Year replacement items available





## VISUAL SELECTION

Face Profile	Item No. ♦	Description	Rout Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./LFT	
<b>Suprafine® XL® and Suprafine XL High Recycled Content (Red Numbers are Fire Guard™ Items)</b>						
					<b>4 Ft.</b>	<b>5 Ft.</b>
9/16"	<b>7501</b> _ _ † † † <b>7501HRC</b> <b>8501</b> <b>7536</b>	12' HD Main Beam	6" O.C.	144 x 9/16 x 1-11/16"	16.86	10.62
9/16"	<b>7500</b> _ _ ❖ † † <b>8500</b>	12' ID Main Beam	6" O.C.	144 x 9/16 x 1-11/16"	12.75	5.74
9/16"	<b>7502</b> _ _ ❖	10' ID Main Beam	6" O.C.	120 x 9/16 x 1-11/16"	12.75	5.74
9/16"	<b>XL7580</b> _ _ ❖	8' Cross Tee	12" O.C.	96 x 9/16 x 1-11/16"	12.73**	–
9/16"	<b>XL7590</b> _ _ ❖	6' Cross Tee	12" O.C.	72 x 9/16 x 1-11/16"	12.73**	–
9/16"	<b>XL7558</b> _ _ ❖	5' Cross Tee	6", 20", 30"	60 x 9/16 x 1-11/16"	–	5.80
9/16"	<b>XL7541HRC</b>	4' Cross Tee	–	48 x 9/16 x 1-11/16"	12.73	–
9/16"	<b>XL7540</b> _ _ † † † <b>XL8540</b>	4' Cross Tee	12" O.C.	48 x 9/16 x 1-11/16"	10.34	–
9/16"	<b>XL7549</b> _ _ ❖ † †	4' Cross Tee	–	48 x 9/16 x 1-11/16"	16.42	–
9/16"	<b>XL7530</b> _ _ ❖	3' Cross Tee	–	36 x 9/16 x 1-11/16"	–	–

\* Simple Span  
\*\* Wire at 4'  
† Items available in Standard, Premium, and Blizzard White powder-coated finish  
†† Items available with TrioGuard® coating in White (WH3G)  
❖ Items available in Blizzard White powder-coated finish  
♦ When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7501HA – Haze)

## PERFORMANCE

Fire Guard™	Seismic Category
	
Dots represent high level of performance.	
–	•
–	•
•	•
–	•
–	–
•	–
–	–
–	•
–	•
•	•
–	•
–	•

## PACKAGING

Pcs./ Ctn.	LFT/ Ctn.
20	240
20	240
20	240
20	240
20	240
20	240
20	200
20	160
20	120
60	300
60	240
60	240
60	240
60	240
60	180

ASTM Class  
HD Heavy-duty  
ID Intermediate-duty  
LD Light-duty

## COLORS AND FINISH

### Standard



White (WH)



White with TrioGuard® Coating (WH3G)

### Powder-Coated Finish



Blizzard White (ZW)



Available in any color!

# SUPRAFINE® XL® and ML SUPRAFINE XL High Recycled Content Exposed Tee System



Declare™  
Living Building  
Challenge Compliant

SUSTAIN™  
High Performance  
Sustainable  
Ceiling Systems

UP TO **61%** RECYCLED CONTENT

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

## VISUAL SELECTION

Face Profile	Item No. ♦	Description	Roof Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./LFT
<b>Suprafine® XL® and Suprafine XL High Recycled Content (Red Numbers are Fire Guard™ Items)</b>					
9/16"	<b>XL7570</b> _ ❖	30" Cross Tee	–	30 x 9/16 x 1-11/16"	28.67 –
9/16"	<b>XL7520</b> _ _ † <b>XL7520 HRC</b> <b>XL8520</b>	2' Cross Tee	–	24 x 9/16 x 1-11/16"	51.83 –
9/16"	<b>XL7510</b> _ ❖	1' Cross Tee	–	12 x 9/16 x 1-11/16"	51.83 –
<b>Size Capabilities</b>		<b>Main Beams Length</b>	<b>Cross Tees Length</b>		
9/16"	1 CTN MIN Made-to-Order Sizes or Colors (2 Wks)*	24" – 144"	3" – 144"	–	–
		Route spacing 3" from ends, 6" thereafter * NOTE: Up to 6 Weeks for Color & Size Combinations			

Made-to-Order main beams and cross tees can be ordered with special sizes, roof spacing, and colors for your project needs in one carton minimums.

## Suprafine XL items for TechZone® Ceiling Systems

Additional items available in TechZone Technical Guide – BPCS-4486 or [armstrongceilings.com/techzone](http://armstrongceilings.com/techzone)

9/16"	Item No. ❖	Description	Dimensions	4 Ft.	5 Ft.
9/16"	<b>7504</b> _ ❖	120" HD Main Beam	15", 42", 48", 75", 102", 108"	12.75	10.62
9/16"	<b>7505</b> _ ❖	100" HD Main Beam	2", 26", 50", 74", and 98"	–	–
9/16"	<b>7507</b> _ ❖	144" HD Main Beam	15", 36", 42", 63", 84", 144 x 9/16 x 1-11/16"	–	–
9/16"	<b>7508</b> _ ❖	132" HD Main Beam	10", 30", 50", 56", 76", 96", 116", 122"	–	–
9/16"	<b>TZXL7556</b> _ ❖	56" Cross Tee	–	–	–
9/16"	<b>XL7562</b> _ ❖	42" Cross Tee	–	12.34	–
9/16"	<b>XL7528</b> _ ❖	28" Cross Tee	–	–	–
9/16"	<b>XL7561</b> _ ❖	21" Cross Tee	–	–	–
9/16"	<b>XL7506</b> _ ❖	6" Cross Tee	–	–	–
9/16"	<b>XL7504</b> _ ❖	4" Cross Tee	–	–	–

Suprafine® ML		4 Ft.	5 Ft.
9/16"	<b>ML7540</b> _ ❖	4' Cross Tee	10.34 –
9/16"	<b>ML7520</b> _ ❖	2' Cross Tee	51.80 –

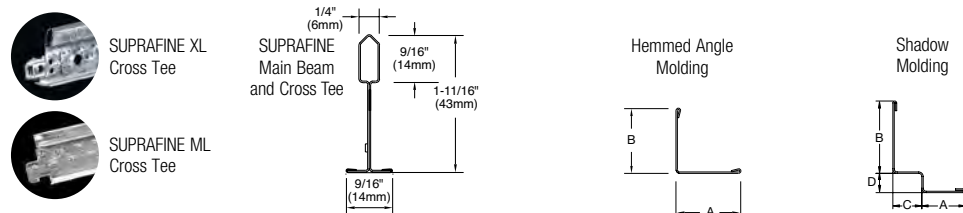
\* Simple Span † Items available in Standard, Premium, and Blizzard White powder-coated finish  
 †† Items available with TrioGuard® coating in White (WH3G) ❖ Items available in Blizzard White powder-coated finish  
 ♦ When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., ML7540HA – Haze)

Item No.	Description	Item No.	Description
<b>7808</b> _ ❖	10' Hemmed Angle Molding	<b>7874</b> _ ❖	10' Shadow Molding
<b>7804</b> _ ❖	12' Hemmed Angle Molding	<b>7877</b> _ ❖***	10' Seismic Shadow Molding
<b>7804HRC</b>	12' Hemmed Angle Molding	<b>7889</b> _ ❖	10' Shadow Molding
<b>7835</b>	10' Channel Molding	<b>7850</b> _ ❖	10' Hemmed Angle Molding
<b>7873</b> _ ❖	10' Shadow Molding	<b>7851</b> _ ❖	12' Hemmed Angle Molding

\*\*\* Suitable for IBC Category D,E,F installations using Armstrong® Seismic Rx® suspension system and BERC2 Clip

## ACCESSORIES For accessories see pages 472-473

## DETAILS For more information, see submittal CS-3077.



SUSPENSION SYSTEMS

# MOLDINGS

Available With  
**TrioGuard®**  
Dirt-Resistant  
Coating

UP TO **30%** RECYCLED CONTENT

**LEED®**

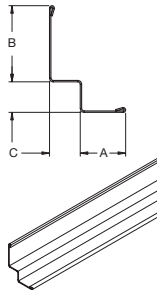
- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- low based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

Angle molding, shadow molding, channel molding, and other wall moldings are an important detail in the design and installation of each ceiling system. Wall moldings offer a unique solution to each ceiling system by maintaining a consistent look and performance to each design.

**Shadow molding:**  
Hemmed with prefinished exposed flanges

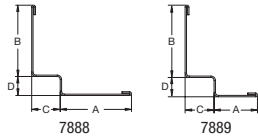


Item No.	Length	(A) Flange	(B) Height	(C) Reveal	LFT/Ctn.
<b>7823*</b>	120"	2"	1-1/4"	3/4"	100
<b>7871</b>	120"	3/4"	15/16"	3/4"	300
<b>7873</b>	120"	9/16"	15/16"	3/8"	300
<b>7874</b>	120"	9/16"	15/16"	1/4"	300
<b>7875</b>	120"	3/4"	15/16"	1/2"	300
<b>7877*</b>	120"	15/16"	15/16"	1/4"	300
<b>7878*</b>	120"	15/16"	15/16"	3/8"	300
<b>7897*</b>	120"	15/16"	15/16"	1/2"	300

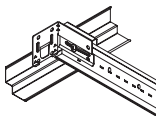
\* Suitable for IBC Category D, E, F installations.  
NOTE: Shadow molding can be rotated to be used with either flange.  
For molding corner covers see page 380.

**Shadow molding:**  
Hemmed with prefinished exposed flanges

Item No.	Length	(A) Flange	(B) Height	(C) Reveal	(D) Reveal	LFT/Ctn.
<b>7888</b>	120"	15/16"	15/16"	3/8"	1/4"	300
<b>7889</b>	120"	9/16"	15/16"	3/8"	1/4"	300



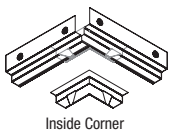
**Shadow molding:**  
(Compatible with Seismic Rx® and BERC 2)



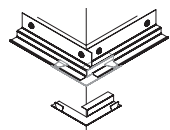
Item No.	Length	(A) Flange	(B) Height	(C) Reveal	LFT/Ctn.
<b>7877*</b>	120"	15/16"	15/16"	1/4"	300
<b>7878*</b>	120"	15/16"	15/16"	3/8"	300
<b>7888</b>	120"	15/16"	3/8"	1/4"	300
<b>7897*</b>	120"	15/16"	15/16"	1/2"	300

\* Suitable for IBC Category D, E, F installations.  
NOTE: Shadow molding can be rotated to be used with either flange.  
For molding corner covers see page 380.

**Shadow molding:**  
Inside and outside corners



Inside Corner

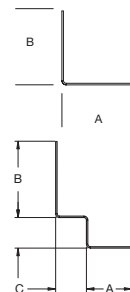


Outside Corner

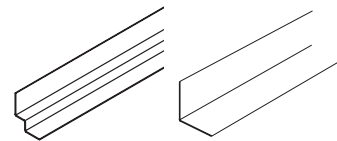
Item No.	Description
<b>7874IC</b>	Inside Corner for 7874 Molding
<b>7874OC</b>	Outside Corner for 7874 Molding
<b>7861</b>	Inside Corner for 7873 Molding
<b>7862</b>	Outside Corner for 7873 Molding
<b>7877IC</b>	Inside Corner for 7877 Molding
<b>7877OC</b>	Outside Corner for 7877 Molding
<b>7878IC</b>	Inside Corner for 7878 Molding
<b>7878OC</b>	Outside Corner for 7878 Molding

NOTE: Shadow molding can be rotated to be used with either flange (Corners will not work with rotated moldings).

**Flex molding:**  
Steel base with flexible vinyl facing

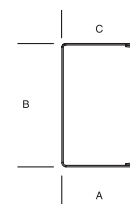


Item No.	Length	(A) Flange	(B) Height	(C) Reveal	LFT/Ctn.
<b>Angle</b>					
<b>7880_*</b>	96"	1"	1"	-	96
<b>7882_*</b>	96"	7/8"	15/16"	-	96
<b>7884_*</b>	96"	15/16"	15/16"	-	96
<b>7885_*</b>	96"	9/16"	1"	-	96
<b>7887</b>	96"	2"	1-1/2"	-	96
<b>Shadow</b>					
<b>7890</b>	96"	3/4"	1-5/8"	3/4"	96
<b>7898</b>	96"	9/16"	1"	3/8"	96

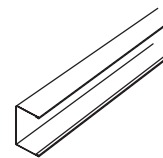


\* Available in Black and White.

**Channel molding:**  
Hemmed with prefinished exposed flanges



Item No.	Length	(A) Flange	(B) Height	(C) Reveal	LFT/Ctn.
<b>7830</b>	120"	15/16"	1-15/16"	15/16"	160
<b>7831</b>	120"	15/16"	1-9/16"	15/16"	200
<b>7834</b>	120"	15/16"	1-1/4"	1/2"	240
<b>7835_*</b>	120"	7/8"	1-3/4"	9/16"	200
<b>7835SC**</b>	11"	7/8"	1-3/4"	9/16"	150
<b>HD7831WA***</b>	120"	7/8"	1-3/4"	9/16"	200



\* Available in Gun Metal Grey and Silver Grey  
\*\* Unpainted spreader channel  
\*\*\* White aluminum

Recommended moldings are included with suspension systems interface drawings on pages 474-478

# MOLDINGS

Angle molding, shadow molding, channel molding, and other wall moldings are an important detail in the design and installation of each ceiling system. Wall moldings offer a unique solution to each ceiling system by maintaining a consistent look and performance to each design.

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

UP TO **30%** RECYCLED CONTENT

**LEED®**

energy management

construction waste mgmt

regional materials

design for flexibility

EPD

recyclable/extended producer resp.

biobased materials

recycled content

sourcing of raw materials

material ingredient reporting

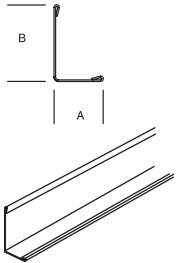
low emitting materials

lighting quality

acoustics

▲ LOCATION DEPENDENT

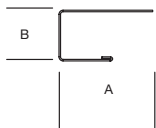
**Angle molding:**  
Hemmed with prefinished exposed flanges



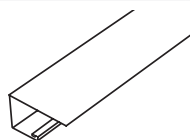
Item No. ◆	Length	(A) Flange	(B) Height	LFT/Ctn.
7800__*†	144"	7/8"	7/8"	360
7800HRC	144"	7/8"	7/8"	360
7802	120"	7/8"	7/8"	300
7803__❖	144"	7/8"	7/8"	360
7804__**†	144"	9/16"	7/8"	360
7804HRC	144"	9/16"	7/8"	360
780410	120"	9/16"	7/8"	300
7805	120"	1-1/2"	1-1/2"	300
7807__****	120"	2"	1"	100
7808__****†	120"	2"	2"	100
780812	144"	2"	2"	120
7809	144"	15/16"	15/16"	360
7813	120"	3"	1"	200
7850	120"	1-1/8"	7/8"	360
7851	144"	1-1/8"	7/8"	300
HD7801__***	120"	7/8"	7/8"	300
HD7801G90	120"	7/8"	7/8"	300
SS7801	120"	7/8"	7/8"	300
AL7801	120"	7/8"	7/8"	300
SWA9854HRC	144"	1-1/4"	1-1/4"	144
SWA9878HRC	144"	7/8"	7/8"	144

- \* Available in Adobe, Black, Cream, Haze, Camel, White, Platinum, Oyster, Pewter, Bronze, Silver, Copper, Wolf, Vanilla, Slate, White Aluminum, and Natural Aluminum
- \*\* Available in Black, Cream, Haze, Platinum, White, Camel, Silver Grey, Silver Satin, and Gun Metal Grey
- \*\*\* Available in Silver Satin, Silver Grey, Gun Metal Grey, White Aluminum, Natural Aluminum, G90
- \*\*\*\* Available in Black, White, Silver Grey, and Gun Metal Grey
- ❖ Pre-punched
- † Items available with TrioGuard® coating in White (WH3G)
- ◆ When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7807WH)

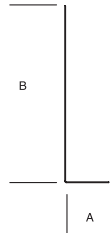
**Slip-on molding:**  
For glue-up tile



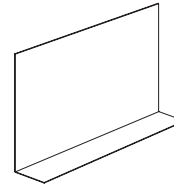
Item No.	Length	(A) Flange	(B) Height	LFT/Ctn.
7842	120"	1/2"	5/8"	400
7843	120"	1/2"	3/4"	400



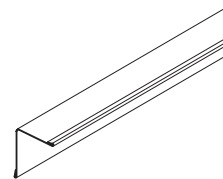
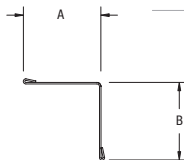
**Fascia molding:**  
Prefinished exposed flanges



Item No.	Length	(A) Flange	(B) Height	LFT/Ctn.
7814	120"	1"	4"	50
7816	120"	1"	6"	50
7818	120"	1"	8"	50

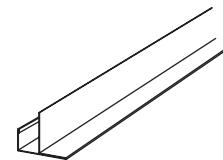
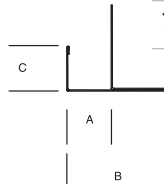


**Reverse angle molding:**  
Hemmed with prefinished exposed flanges



Item No.	Length	(A) Flange	(B) Height	LFT/Ctn.
7857	144"	15/16"	15/16"	360
7858	144"	1-9/16"	15/16"	240

**"F" molding:**  
For 1/2" and 5/8" drywall



Item No.	Length	(A) Width	(B) Face	(C) Flange	LFT/Ctn.
7852	120"	1/2"	1-1/16"	7/8"	200
7856	120"	5/8"	1-3/16"	7/8"	200

# TRANSITION MOLDINGS

UP TO **61%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

- LEED®
- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

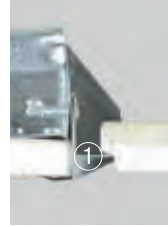
Transition moldings save time and money.

LOCATION DEPENDENT

Conventional transition methods waste time and material.

## Why use transition moldings?

- Easier to install:
  - Fewer parts and pieces; combines molding with drywall taping flange
  - Pre-punched vertical web to improve screw attachment
  - Knurled and slotted integral taping flange on items 7901, 7902, 7904, 7905, 7906, 7907, 7908 accommodates taping and finishing
- Protective film on the face of the wall molding flange of 7904PF and 7905PF facilitates faster, easier mudding, sanding, and taping
- Compatible with all types of framing including Armstrong® Drywall Grid and ShortSpan® Drywall Framing System
- Factory-painted to match Armstrong Suspension Systems



1 Item: 7907 – 9/16" Tegular Transition Molding



## Transition moldings eliminate:

- Vertical drywall return at the transition
- Return framing to support drywall return
- Separate acoustical wall angle installation
- Corner bead and vertical taping

NOTE: Lay out drywall main beams parallel to the transition molding to maintain 4' O.C. hanger wire spacing.

## MATERIALS

Commercial-quality cold-rolled, hot-dipped galvanized steel, chemically cleansed.

## COLOR



White (WH)

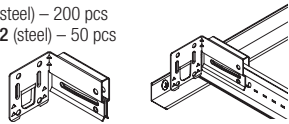
Item No.	Description	LFT/Ctn.	Diagram	Image
7901	9/16" Shadow Reveal Transition Molding 120", 3/8" shadow reveal with 9/16" horizontal flange	120		
7902	15/16" Shadow Reveal Transition Molding 120", 3/8" shadow reveal with 15/16" horizontal flange	120		
7903	1" Flush T Transition Molding 120", 1" inverted T for monolithic horizontal transitions	120		
7904 7904PF*	15/16" Flush Transition Molding 120", 15/16" horizontal flange  * Protective film applied to face of wall molding for easier finishing	120		
7905 7905PF*	9/16" Flush Transition Molding 120", 9/16" horizontal flange  * Protective film applied to face of wall molding for easier finishing	120		
7906	"F" Vertical Transition Molding 120" vertical transition	120		
7907	9/16" Tegular Transition Molding 120", 9/16" horizontal flange	120		
7908	15/16" Tegular Transition Molding 120", 15/16" horizontal flange	120		

# EXPOSED TEE SYSTEM ACCESSORIES

SUSPENSION SYSTEM ACCESSORIES

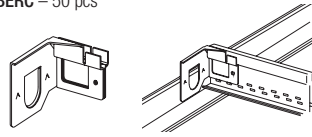
**2" Beam End Retaining Clip** – Joins main beam or cross tee to wall molding and web of suspension system with no visible pop rivets.

- ALBERC2 (aluminum) – 200 pcs
- FZALBERC2 (aluminum) – 50 pcs
- BERC2 (steel) – 200 pcs
- FZBERC2 (steel) – 50 pcs



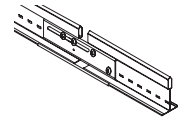
**BERC – Beam End Retaining Clip** – Joins web of main beam or cross tee to wall molding with no visible pop rivets.

- BERC – 200 pcs
- FZBERC – 50 pcs



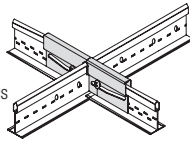
**Seismic Joint Clip – Main Beam** – Allows the ceiling to be divided at a splice on the main beam to accommodate the IBC mandate for ceiling areas greater than 2500 SF to have seismic separation joints. ES4 expansion sleeve is used to cover 3/4" gap.

- SJMR15 for 15/16" – 100 pcs
- FZSJMR15 for 15/16" – 50 pcs
- SJMR9 for 9/16" – 100 pcs
- FZSJMR9 for 9/16" – 50 pcs



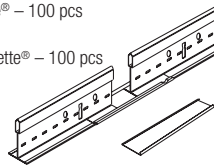
**Seismic Joint Clip Cross Tee** – Offers a tested seismic solution for separation joints in Seismic Category D, E, and F installations.

- SJCG (PeakForm®) – 200 pcs
- FZSJCG (PeakForm®) – 50 pcs
- SJCSI (square bulbs) – 200 pcs
- FZSJCSI (square bulbs) – 50 pcs



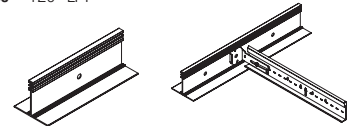
**Expansion Sleeves**

- ES4 – for 15/16" Prelude® – 100 pcs
- FZES4 – 50 pcs
- ES49 – for 9/16" Suprafire® – 100 pcs
- FZES49 – 50 pcs
- ES76004 – for 1/4" Silhouette® – 100 pcs
- FZES76004 – 50 pcs
- ES76008 – for 1/8" Silhouette – 100 pcs
- FZES76008 – 50 pcs



**AXSJ-Axiom® Slip Joint** – Used to join two acoustical ceiling systems on seismic D, E, F installations. Can also be used to join two different ceiling systems. Hanger wire holes every 6", beginning 3" from each end.

AXSJ – 120" LFT



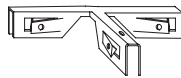
**STAC – Single Tee Adapter Clip** – Used to create code compliant non-seismic and seismic C and D, E, F off-module main beam to cross tee connections.

- STAC – 120 pcs
- FZSTAC – 50 pcs



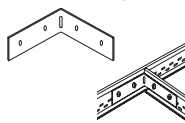
**GC3W90 – Grip Clip 3-Way** – Joins main beams to cross tee via locking barbs without pop rivets or screws.

- GC3W90 – 250 pcs
- FZGC3W90 – 50 pcs



**XTACAG – Cross Tee Adapter Clip** – Used to attach field-cut cross tees to main beams

- XTACAG – 100 pcs
- FZXTACAG – 50 pcs



**GCWA – Grip Clip Wall Attachment** – Joins main beam or cross tee to wall molding via locking barbs without pop rivets or screws.

- GCWA – 250 pcs
- FZGCWA – 50 pcs

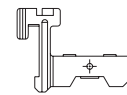


**Closure Clips**

- MCC4G for Silhouette® 1/4" reveal – 200 pcs
- FZMCC4G – 50 pcs
- MCC8 for Silhouette 1/8" reveal – 200 pcs
- FZMCC8 – 50 pcs
- IES3 for Interlude® – 200 pcs
- FZIES3 – 50 pcs

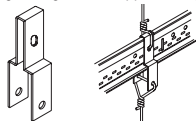
**C1430 – Variable Placement Hook Clip** – Attach to T-Bar to create special length tees and position anywhere along the main beams.

- C1430 – 200 pcs
- FZC1430 – 50 pcs



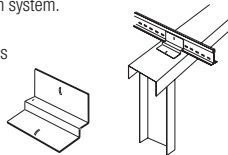
**DLCC – Direct Load Ceiling Clip** – To hang suspension system below existing 15/16" grid face, transferring weight directly to hanger wire; may be used to preserve the fire rating of an existing ceiling and to support heavy accessories.

- DLCC – 250 pcs
- FZDLCC – 50 pcs



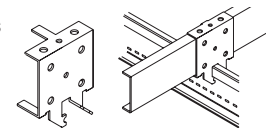
**UPCAG – Partition Clip** – Fastens partition track section to suspension system for secure attachment; flip for 9/16" or 15/16" suspension system.

- UPCAG – 200 pcs
- FZUPCAG – 50 pcs



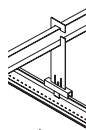
**UTC – Uptight Clip** – For tight suspension system attachment to 1-1/2" channel; bridging under HVAC ducts; can be used to install the suspension system tight to wood joists.

- UTC – 250 pcs
- FZUTC – 50 pcs



**Channel Beam Splice** – Used to suspend main beams to 1-1/2" black iron carrying channels.

- CBS4 (4") – 100pcs; FZCBS4 – 50 pcs
- CBS6 (6") – 100pcs; FZCBS6 – 50 pcs
- CBS8 (8") – 100pcs; FZCBS8 – 50 pcs
- CBS10 (10") – 100pcs; FZCBS10 – 50 pcs
- CBS12 (12") – 75pcs; FZCBS12 – 50 pcs



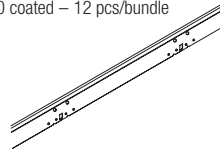
For 2" Black Iron

- CBS2004A (4") – 75pcs; FZCBS2004A – 50 pcs
- CBS2006A (6") – 75pcs; FZCBS2006A – 50 pcs
- CBS2008A (8") – 75pcs; FZCBS2008A – 50 pcs



**SH12 – PeakForm® Support Hanger** – For suspension systems 12" knock out at 12" on-center.

- SB12 Square Bulb Support Hanger – 12 pcs/bundle
- SB12G90 Square Bulb Support – 12 pcs/bundle
- Hanger G90 coated – 12 pcs/bundle



**Adjustable Grid Spacer Clip** –

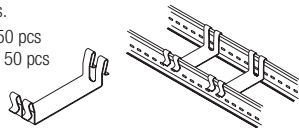
Used to space two parallel main beams for light fixtures, air diffusers, etc.; allows for 1/4" adjustments with three different clips.

- GSC9 Main Beam Center Line Spacing 2" 1/2" – 8" 1/2" – 100 pcs
- FZGSC9 – 50 pcs
- GSC12 Main Beam Center Line Spacing 5" 1/2" – 11" 1/2" – 100 pcs
- FZGSC12 – 50 pcs
- GSC16 Main Beam Center Line Spacing 9" 1/2" – 15" 1/2" – 100 pcs
- FZGSC16 – 50 pcs



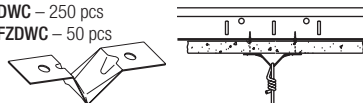
**ABSC – Air Bar Spacer Clip** – Parallel attachment of main beams; evenly spaces suspension system members for air diffuser; available in sizes from 1-7/8" to 6" in 1/8" increments.

- ABSC – 250 pcs
- FZABSC – 50 pcs



**DWC – Drywall Clip** – Allows for a "second" ceiling to be installed below a drywall ceiling; attach through installed drywall to supporting structure; DWC approved for use in UL Designs P237, P239, P240, and P241.

- DWC – 250 pcs
- FZDWC – 50 pcs



**7872 – 12" Stiffening Brace**

20 pcs

**7876 – Field Rout Tool**

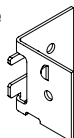
1 pc

**ARPLUG – Cross Tee Plug Clip**

80 pcs

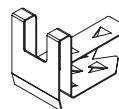
**TZYK/TZBC – TechZone™ Yoke & Brace**

- TZYK TechZone Yoke – 100 pcs
- FZTYK TechZone Yoke – 50 pcs



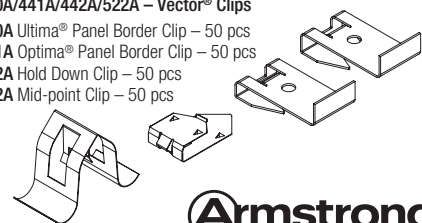
**435A/436A – Optima® Panel Stabilizer Clips**

- 7425 24" Stabilizer Bar – 100 pcs
- 7445 48" Stabilizer Bar – 100 pcs



**440A/441A/442A/522A – Vector® Clips**

- 440A Ultima® Panel Border Clip – 50 pcs
- 441A Optima® Panel Border Clip – 50 pcs
- 442A Hold Down Clip – 50 pcs
- 522A Mid-point Clip – 50 pcs





# EXPOSED TEE SYSTEM ACCESSORIES

UP TO **30%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

**LEED**®

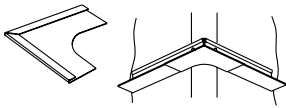
- energy management
- construction waste to reuse
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- low embodied materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

**7866 – Bullnose Corner Cover** – For nominal 7/8" molding; snap over molding to trim outside corners; fits 1" radius block; 2" legs.

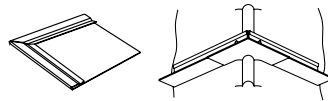
**7864 – Bullnose Corner Cover** – For nominal 7/8" molding; fits 3/4" radius block; 2" legs.

7866 – 100 pcs  
FZ7866 – 50 pcs  
7864 – 100 pcs  
FZ7864 – 50 pcs



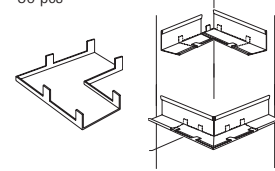
**7867 – Field-Cut Corner Cover** – For nominal 15/16" molding; cut to fit irregular corner conditions; 2" legs.

7867 – 100 pcs  
FZ7867 – 50 pcs



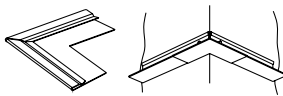
**7869 – Inside/Outside Corner Cover** – For nominal 7/8" angle molding; 1-3/4" legs.

7869 – 50 pcs



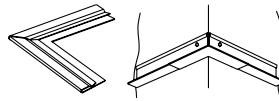
**7863 – Outside Corner Cover** – For nominal 7/8" angle molding; snap over molding to trim outside corners; 2" legs.

7863 – 100 pcs  
FZ7863 – 50 pcs



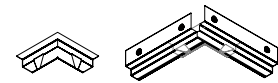
**7865 – Outside Corner Cover** – For nominal 9/16" angle molding; snap over molding to trim outside corners; 2" legs.

7865 – 100 pcs  
FZ7865 – 50 pcs



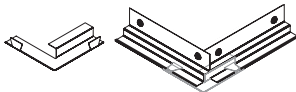
**Shadow Molding – Inside Corner** – Snaps over mold to easily trim inside corner:

7874IC use with 7874 – 100 pcs; FZ7874IC – 50 pcs  
7861 use with 7873 – 100 pcs; FZ7861 – 50 pcs  
8771C use with 7877 – 100 pcs; FZ8771C – 50 pcs  
7878IC use with 7878 – 100 pcs; FZ7878IC – 50 pcs



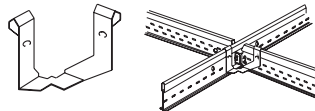
**Shadow Molding – Outside Corner** – snaps over mold to easily trim outside corner:

7874OC use with 7874 – 100 pcs; FZ7874OC – 50 pcs  
7862 use with 7873 – 100 pcs; FZ7862 – 50 pcs  
7877OC use with 7877 – 100 pcs; FZ7877OC – 50 pcs  
7878OC use with 7878 – 100 pcs; FZ7878OC – 50 pcs



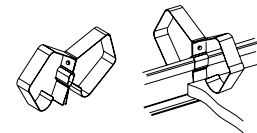
**LFC – Fixture Clip** – Prefinished White for use at corners of light fixture modules on 9/16" exposed tee suspension systems (Suprafine®, Interlude®, Silhouette®); increases corner size to 15/16" which adapts light fixtures designed for the 15/16" suspension system; used when fixtures are not positively attached to the suspension system.

LFC – 50 pcs; FZLFC – 50 pcs



**414AG – Retention Clip** – Attaches to main beams and cross tees behind lay-in ceiling; helps prevent accidental panel displacement by basketballs and other forces from below the ceiling.

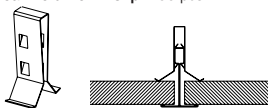
414AG – 100 pcs  
FZ414AG – 50 pcs



**UHDC – Universal Hold Down Clip** – Attaches to top bulb of the suspension system to hold 1/16" to 5/8" lay-in panel in place; helps to prevent ceiling panel fluttering at entryways.

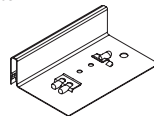
UHDC – 1,000 pcs  
FZUHDC – 50 pcs

CHDC – Clear Hold Down Clip – 50 pcs



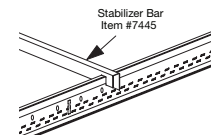
**DW58LT – Transition Clip for 5/8" Drywall** – Facilitates transition from drywall to acoustical ceiling; one-sided hold down clip; eliminates need for drywall bead. Locking tabs provide secure location for DGS tees.

DW50LT – Transition Clip for 1/2" Drywall – 125 pcs  
FZDW50LT – 50 pcs



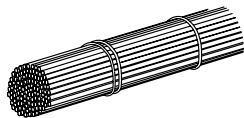
7425 – 24" Stabilizer Bar – 100 pcs  
7431 – 30" Stabilizer Bar – 100 pcs  
7445 – 48" Stabilizer Bar – 100 pcs

Used to maintain uniform spacing of suspension system components (main beams and cross tees).



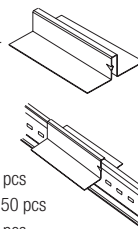
**7891 – 12 Gauge Soft Hanger Wire** (12' length) – Used to hang suspended ceilings from structural deck.

7891 – 140 pcs



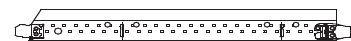
**EHDC50A – Exterior Hold Down Clip** for 1/2" lay-in ceiling panels and drywall;  
**EHDC58AG – Exterior Hold Down Clip** for 5/8" lay-in ceiling panels and drywall;  
**EHDC75A – Exterior Hold Down Clip** for 3/4" lay-in ceiling panels and drywall; locks under bulb of suspension system member to prevent upward movement.

EHDC50A – 125 pcs; FZEHDC50A – 50 pcs  
EHDC58AG – 125 pcs; FZEHDC58AG – 50 pcs  
EHDC75A – 125 pcs; FZEHDC75A – 50 pcs



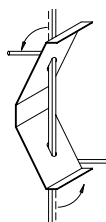
**GA7327 – Grid Adapter** – Allows for easy directional changes of Prelude® Main beams; 27" long component has two different end details. One end has a SuperLock™ clip with a rout 3" from the end, opposite end has an XL<sup>2</sup> clip with override end detail. This enables the adapter to be connected to either end of a Prelude main beam or plugged into a rout location on a main beam or cross tee.

GA7327 – 60 pcs

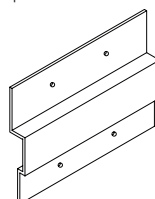


**WS12 – Hanger Wire Splice** – Splices #12 gauge hanger wire; recommended for renovation applications; provides easy adjustment of ceiling height.

WS12 – 1,000 pcs  
FZWS12 – 50 pcs



**BACG90A – Wind Uplift Clip** – 250 pcs  
FZBAG90A – 50 pcs



**12 lb. Aircraft Cable and Connectors**

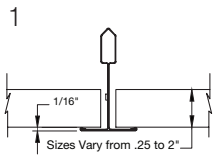
AC1210 – 10' length  
AC1215 – 15' length  
AC1220 – 20' length  
ACHC – Cable Quick Loop Connector  
1 pc

# CEILING/SUSPENSION SYSTEM INTERFACE DRAWINGS

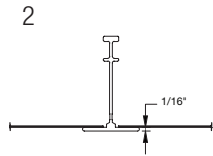
## RECOMMENDED MOLDING KEY:

- A – Installs with any flex molding, angle molding, shadow molding from moldings pages 376-378
- B – 7800, 7874 or seismic 7877, 7888
- C – ES7801 or EA7801
- D – 7800, 7873, 7878, 7888, 7889
- E – 7835, 7835SC
- F – 7804, 7874, 7889 or seismic 7800, 7877, 7888
- G – 7804, 7873 or seismic 7800 or 7878, 7889
- H – 7800 or Shadow 7875, 7897
- I – 7800

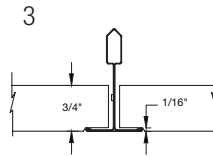
### 15/16" LAY-IN & FLUSH TEGULAR EDGE DETAILS



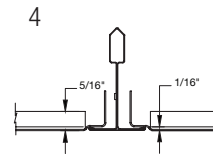
Square Lay-in for  
15/16" PRELUDE®  
Molding A



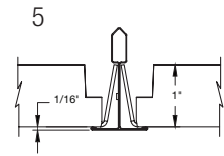
Lay-in for  
15/16" SERPENTINA®  
No molding recommended



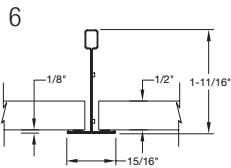
Flush Tegular for  
15/16" PRELUDE  
Molding A



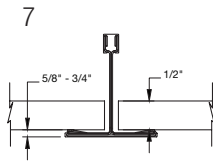
METALWORKS Flush Tegular for  
15/16" PRELUDE  
Molding E



15/16" METALWORKS™  
SECURELOCK  
Molding 5656WH

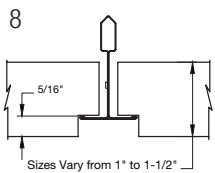


Square Lay-in for  
15/16" CLEAN ROOM™  
Molding C

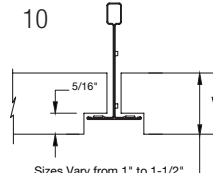


Square Lay-in for  
1-1/2" CLEAN ROOM  
Molding C

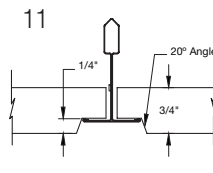
### 15/16" TEGULAR EDGE DETAILS



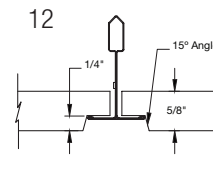
Square Tegular for  
15/16" PRELUDE  
Molding B



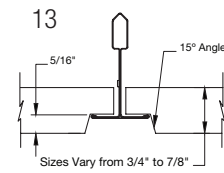
Square Tegular for  
15/16" Clean Room  
Molding C



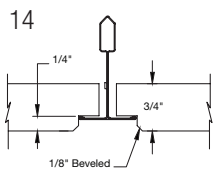
Angled Tegular for 15/16" PRELUDE  
(Second Look®: Cortega®,  
Dune™, Fine Fisured™, Mesa™)  
Molding I



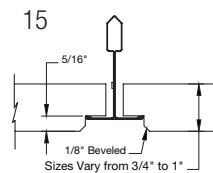
Angled Tegular for  
15/16" PRELUDE  
Molding B



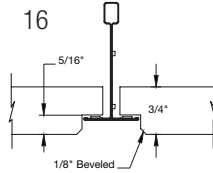
Angled Tegular for  
15/16" PRELUDE  
Molding B



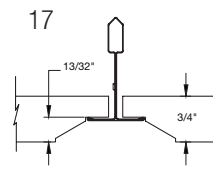
Beveled Tegular for  
15/16" PRELUDE  
(Cirrus®, Second Look)  
Molding I



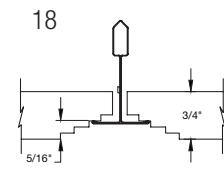
Beveled Tegular for  
15/16" PRELUDE  
Molding B



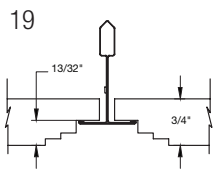
Beveled Tegular for  
15/16" Clean Room  
(Ultima® Health Zone™)  
Molding C



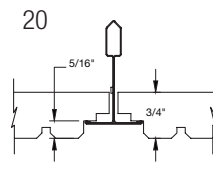
Chamfered Tegular for  
15/16" PRELUDE  
Molding D



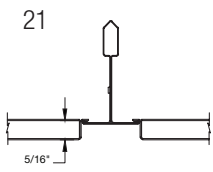
Stepped Tegular for  
15/16" PRELUDE  
Molding B



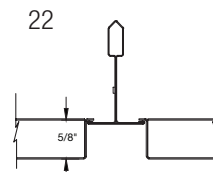
Stepped Tegular for  
15/16" PRELUDE  
(626 only)  
Molding D



Linear/Cubic Beveled GRAPHIS® for  
15/16" PRELUDE  
Molding B

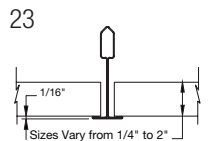


METALWORKS 5/16" Square Tegular for  
15/16" PRELUDE  
Molding E

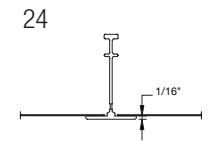


METALWORKS 5/8" Square Tegular for  
15/16" PRELUDE  
Molding E

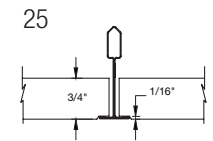
### 9/16" LAY-IN & FLUSH TEGULAR EDGE DETAILS



Square Lay-in for  
9/16" SUPRAFINE®  
Molding E



Lay-in for  
9/16" SERPENTINA  
No molding recommended



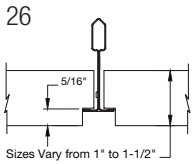
Flush Tegular for  
9/16" SUPRAFINE  
Molding E

# CEILING/SUSPENSION SYSTEM INTERFACE DRAWINGS

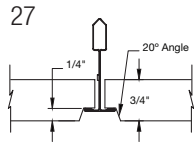
## RECOMMENDED MOLDING KEY:

- A – Installs with any flex molding, angle molding, shadow molding from moldings pages 376-378
- B – 7800, 7874 or seismic 7877, 7888
- C – ES7801 or EA7801
- D – 7800, 7873, 7878, 7888, 7889
- E – 7835, 7835SC
- F – 7804, 7874, 7889 or seismic 7800, 7877, 7888
- G – 7804, 7873 or seismic 7800 or 7878, 7889
- H – 7800 or Shadow 7875, 7897
- I – 7800

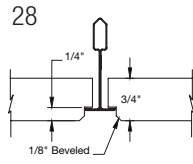
## 9/16" TEGULAR EDGE DETAILS



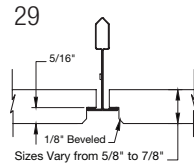
Square Tegular for 9/16" SUPRAFINE®  
Molding F



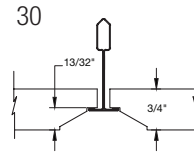
Angled Tegular for 9/16" SUPRAFINE (Second Look®, Cortega®, Dune™, Fine Fissured™)  
Molding I



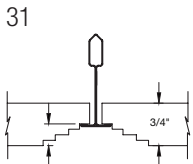
Beveled Tegular for 9/16" SUPRAFINE (Cirrus®, Second Look)  
Molding I



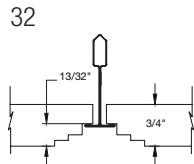
Beveled Tegular for 9/16" SUPRAFINE  
Molding F



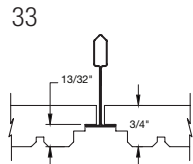
Chamfered Tegular for 9/16" SUPRAFINE  
Molding G



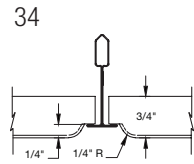
Stepped Tegular for 9/16" SUPRAFINE (591)  
Molding G



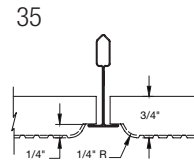
Stepped Tegular for 9/16" SUPRAFINE (585)  
Molding G



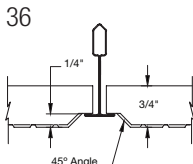
Linear/Cubic Beveled GRAPHIS® for 9/16" SUPRAFINE  
Molding G



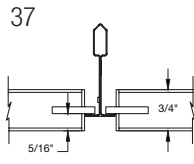
Wrapped Linear GRAPHIS for 9/16" SUPRAFINE  
Molding I



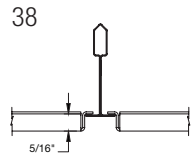
NeoCubic GRAPHIS for 9/16" SUPRAFINE  
Molding I



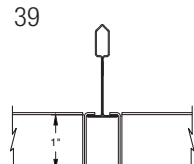
Cubic GRAPHIS for 9/16" SUPRAFINE  
Molding I



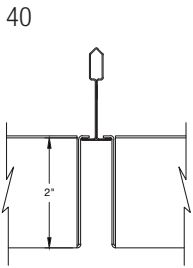
WOODWORKS® Tegular for 9/16" SUPRAFINE  
Molding F



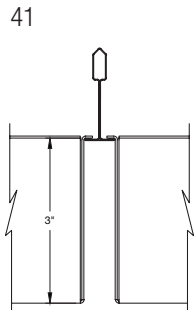
METALWORKS™ 3D (7220) and METALWORKS Tegular (6464) for 9/16" SUPRAFINE  
Molding E



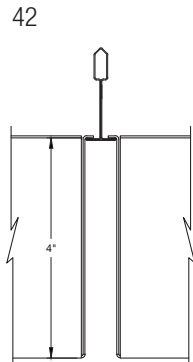
METALWORKS 3D (7220DN1) for 9/16" SUPRAFINE  
No molding recommended



METALWORKS 3D (7220DN2) for 9/16" SUPRAFINE  
No molding recommended

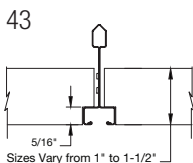


METALWORKS 3D (7220DN3) for 9/16" SUPRAFINE  
No molding recommended

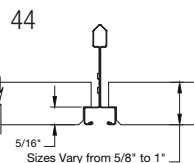


METALWORKS 3D (7220DN4) for 9/16" SUPRAFINE  
No molding recommended

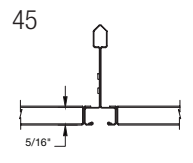
## 9/16" – 1/4" SILHOUETTE® XL EDGE DETAILS



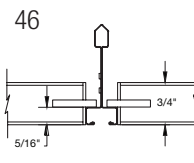
Square Tegular for 9/16" SILHOUETTE 1/4" Reveal  
Molding F



Beveled Tegular for 9/16" SILHOUETTE 1/4" Reveal  
Molding F



METALWORKS 9/16" Square Tegular for SILHOUETTE 1/4" Reveal  
Molding E



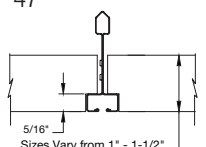
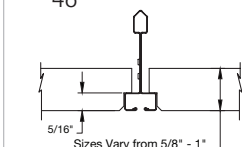
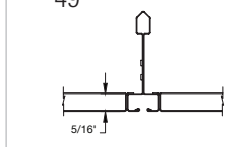
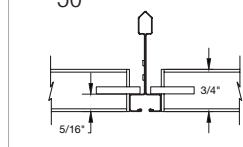
WOODWORKS 9/16" Square Tegular for SILHOUETTE 1/4" Reveal  
Molding F

# CEILING/SUSPENSION SYSTEM INTERFACE DRAWINGS

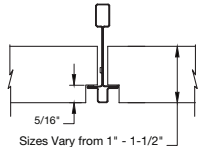
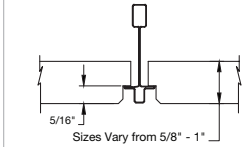
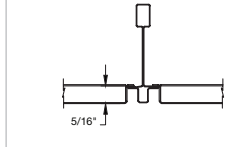
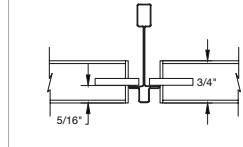
## RECOMMENDED MOLDING KEY:

- A – Installs with any flex molding, angle molding, shadow molding from moldings pages 376-378
- B – 7800, 7874 or seismic 7877, 7888
- C – ES7801 or EA7801
- D – 7800, 7873, 7878, 7888, 7889
- E – 7835, 7835SC
- F – 7804, 7874, 7889 or seismic 7800, 7877, 7888
- G – 7804, 7873 or seismic 7800 or 7878, 7889
- H – 7800 or Shadow 7875, 7897
- I – 7800

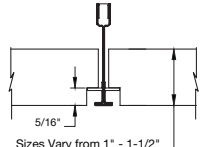
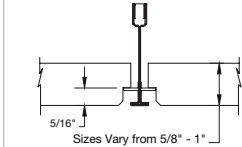
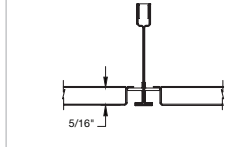
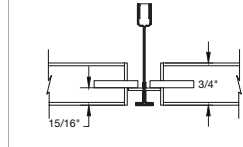
### 9/16" – 1/8" SILHOUETTE® XL® EDGE DETAILS

<p>47</p>  <p>Sizes Vary from 1" - 1-1/2"</p> <p>Square Tegular for 9/16" SILHOUETTE® 1/8" Reveal Molding F</p>	<p>48</p>  <p>Sizes Vary from 5/8" - 1"</p> <p>Beveled Tegular for 9/16" SILHOUETTE® 1/8" Reveal Molding F</p>	<p>49</p>  <p>5/16"</p> <p>METALWORKS™ 5/16" Square Tegular for SILHOUETTE® 1/8" Reveal Molding E</p>	<p>50</p>  <p>3/4"</p> <p>5/16"</p> <p>WOODWORKS® Square Tegular for SILHOUETTE® 1/8" Reveal Molding F</p>
--	---	--	--

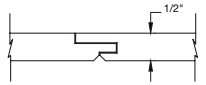
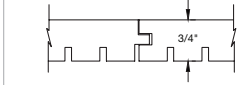
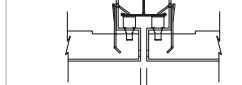
### 9/16" INTERLUDE® XL EDGE DETAILS

<p>51</p>  <p>Sizes Vary from 1" - 1-1/2"</p> <p>Square Tegular for 9/16" INTERLUDE® Molding F</p>	<p>52</p>  <p>Sizes Vary from 5/8" - 1"</p> <p>Beveled Tegular for 9/16" INTERLUDE Molding F</p>	<p>53</p>  <p>5/16"</p> <p>METALWORKS 5/16" Square Tegular for INTERLUDE® XL® HRC Molding E</p>	<p>54</p>  <p>3/4"</p> <p>5/16"</p> <p>WOODWORKS Square Tegular for INTERLUDE XL HRC Molding F</p>
---	---	--	--

### 9/16" SONATA® XL® EDGE DETAILS

<p>55</p>  <p>Sizes Vary from 1" - 1-1/2"</p> <p>Square Tegular for 9/16" SONATA Molding F</p>	<p>56</p>  <p>Sizes Vary from 5/8" - 1"</p> <p>Beveled Tegular for 9/16" SONATA Molding F</p>	<p>57</p>  <p>5/16"</p> <p>METALWORKS 5/16" Square Tegular for SONATA Molding E</p>	<p>58</p>  <p>3/4"</p> <p>5/16"</p> <p>WOODWORKS Square Tegular for SONATA Molding F</p>
--	---	---	---

### TONGUE-AND-GROOVE EDGE DETAILS

<p>63</p>  <p>1/2"</p> <p>Tongue-and-Groove Beveled Edge Tile No molding recommended</p>	<p>65</p>  <p>3/4"</p> <p>Tongue-and-Groove WOODWORKS Channeled Molding 7805</p>	<p>65A</p>  <p>1/8"</p> <p>METALWORKS Clip-On Molding 7112</p>
---	---	---

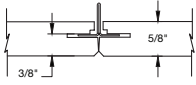
# CEILING/SUSPENSION SYSTEM INTERFACE DRAWINGS

## RECOMMENDED MOLDING KEY:

- A – Installs with any flex molding, angle molding, shadow molding from moldings pages 376-378
- B – 7800, 7874 or seismic 7877, 7888
- C – ES7801 or EA7801
- D – 7800, 7873, 7878, 7888, 7889
- E – 7835, 7835SC
- F – 7804, 7874, 7889 or seismic 7800, 7877, 7888
- G – 7804, 7873 or seismic 7800 or 7878, 7889
- H – 7800 or Shadow 7875, 7897
- I – 7800

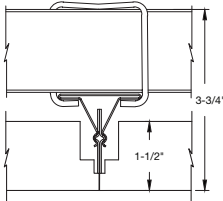
## CONCEALED SUSPENSION EDGE DETAILS

66



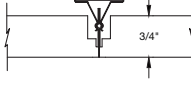
Beveled Edge K4C4 Tile for Concealed Tee  
Molding I

68



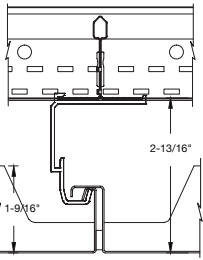
Snap In for 1-1/2" Carrying Channel  
Molding 7125

69



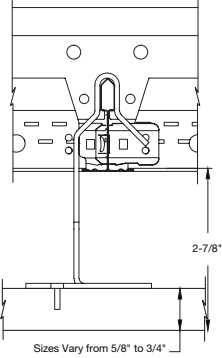
Snap In for 15/16" PRELUDE®  
Molding 7125

70



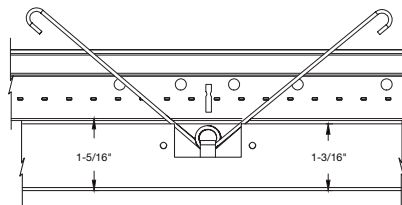
METALWORKS™ Plank

71



Sizes Vary from 5/8" to 3/4"  
Concealed for 15/16" PRELUDE, WOODWORKS® Concealed, WOODWORKS Tapered Linear, METALWORKS Concealed  
Molding I

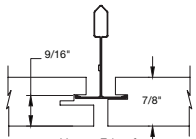
72



Standard METALWORKS Torsion Spring for 15/16" PRELUDE  
Molding 7125

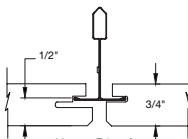
## VECTOR® EDGE DETAILS

73



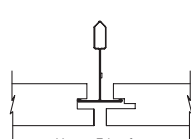
Vector Edge for 15/16" PRELUDE (OPTIMA® Vector®)  
Molding H

74



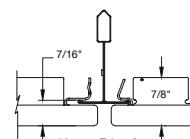
Vector Edge for 15/16" PRELUDE (ULTIMA® Vector®)  
Molding H

74A



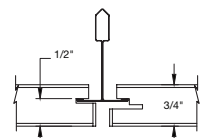
Vector Edge for 15/16" PRELUDE (LYRA Vector)  
Molding H

75



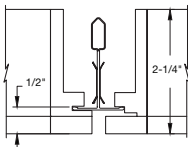
Vector Edge for 15/16" PRELUDE (METALWORKS Vector)  
Molding D

76



Vector Edge for 15/16" PRELUDE (WOODWORKS® Vector®)  
Molding I

77



WOODWORKS Open Cell Vector  
Molding I

# CEILING/SUSPENSION SYSTEM INTERFACE DRAWINGS

## RECOMMENDED MOLDING KEY:

- A – Installs with any flex molding, angle molding, shadow molding from moldings pages 376-378
- B – 7800, 7874 or seismic 7877, 7888
- C – ES7801 or EA7801
- D – 7800, 7873, 7878, 7888, 7889
- E – 7835, 7835SC
- F – 7804, 7874, 7889 or seismic 7800, 7877, 7888
- G – 7804, 7873 or seismic 7800 or 7878, 7889
- H – 7800 or Shadow 7875, 7897
- I – 7800

### METAPHORS® EDGE DETAILS

<p>78</p> <p>METAPHORS Crown Coffer for 9/16" SUPRAFINE®</p>	<p>79</p> <p>METAPHORS Cove Coffer for 9/16" SUPRAFINE</p>	<p>80</p> <p>METAPHORS Convex Coffer for 9/16" SUPRAFINE</p>	<p>81</p> <p>METAPHORS Linear Coffer for 9/16" SUPRAFINE</p>	<p>82</p> <p>METAPHORS Bead Coffer for 9/16" SUPRAFINE</p>
<p>83</p> <p>METAPHORS Crown Coffer for 15/16" PRELUDE</p>	<p>84</p> <p>METAPHORS Cove Coffer for 15/16" PRELUDE</p>	<p>85</p> <p>METAPHORS Convex Coffer for 15/16" PRELUDE</p>	<p>86</p> <p>METAPHORS Linear Coffer for 15/16" PRELUDE</p>	<p>87</p> <p>METAPHORS Bead Coffer for 15/16" PRELUDE</p>

### OTHER EDGE DETAILS

<p>88</p> <p>WOODWORKS® Grille Tegular Horizontal slats for 15/16" PRELUDE® Molding H</p>	<p>89</p> <p>WOODWORKS® Grille Tegular Vertical slats for 15/16" PRELUDE Molding H</p>	<p>90</p> <p>WOODWORKS® Grille Tegular Horizontal slats for 9/16" SUPRAFINE® Molding F</p>	<p>91</p> <p>WOODWORKS® Grille Tegular Vertical slats for 9/16" SUPRAFINE Molding F</p>	<p>92</p> <p>WOODWORKS® Grille Backer 6 slats - 2-1/4" Molding I</p>
<p>93</p> <p>WOODWORKS® Grille Backer 6 slats - 1-3/8" Molding I</p>	<p>94</p> <p>WOODWORKS® Grille Dowel 6 slats - 2-1/4" Molding I</p>	<p>95</p> <p>WOODWORKS® Grille Dowel 6 slats - 1-3/8" Molding I</p>	<p>96</p> <p>WOODWORKS® Linear - 4-1/2" Module Molding I</p>	<p>97</p> <p>WOODWORKS® Linear - 6" Module Molding I</p>
<p>98</p> <p>METALWORKS™ Linear - 4" Molding 5574</p>	<p>99</p> <p>METALWORKS™ Linear - 8" Molding 5574</p>	<p>100</p> <p>METALWORKS™ Wings No molding recommended</p>	<p>101</p> <p>INFUSIONS® Wings No molding recommended</p>	<p>102</p> <p>SERPENTINA® Perimeter Trim</p>
<p>103</p> <p>SERPENTINA Vault</p>	<p>104</p> <p>SOUNDSCAPES® Blades™</p>	<p>105</p> <p>METALWORKS™ Tin Nail-up</p>	<p>106</p> <p>Quick Kerf™ Edge Non-support Edge OPTIMA® Concealed LYRA® Concealed</p>	



# TRIM & TRANSI

TRIM & TRANSITIONS

# AXIOM® TRIM & TRANSITIONS

## At-a-Glance

you inspire™  
solutions center

helping to bring your one-of-a-kind ideas to life

### AXIOM® TRIM & TRANSITIONS



**AXIOM® Classic**  

 Pg. 482-483



**AXIOM® Trim for Drywall**  

 Pg. 484



**AXIOM® Glazing Channel**  

 Pg. 485



**AXIOM® for Interlude®**  

 Pg. 486



**AXIOM® Knife Edge®**  

 Pg. 487



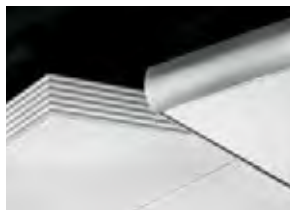
**AXIOM® Paired**  

 Pg. 488



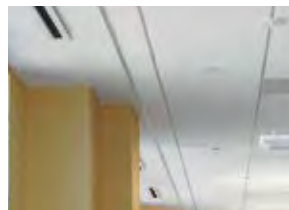
**AXIOM® Profiled**  

 Pg. 489



**AXIOM® Soft Edge**  

 Pg. 490



**AXIOM® Transitions**  

 Pgs. 491-492



**AXIOM® Vector®**  

 Pg. 493



**AXIOM® Moldings & Column Rings**  

 Pg. 494

### ICON KEY

Icons are used throughout the catalog to help you quickly identify key product attributes.

### Humidity/Corrosion Resistance

Humiguard® Plus recommended for areas subject to high humidity up to, but not including, standing water.

### Seismic

Category D, E & F

### Color Availability

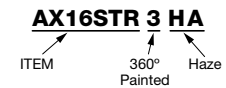
Available in color

### Sustainability

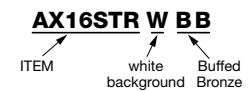
Product is part of Sustain™ Portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 481).

NOTE: Add 2-digit color suffix to the item number when specifying or ordering Axiom trim with standard face-painted colors.  
(Example: **AX16STR H A**)

Axiom item numbers may include an extra digit "3" before the color suffix if paint is required inside and outside of the trim.



Use an extra suffix (W – white, or B – black) before color suffix when ordering film finishes to designate the color background.



NOTE: White is standard color for all Axiom products.

Reference individual Axiom product line data pages for specific color and finish availability.

Custom colors and finishes are available. Contact Axiom Customer Service at 1 800-840-8521.

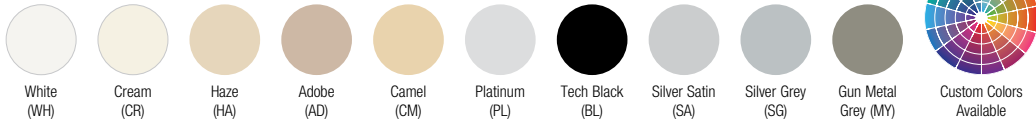


# AXIOM® COLORS

## At-a-Glance

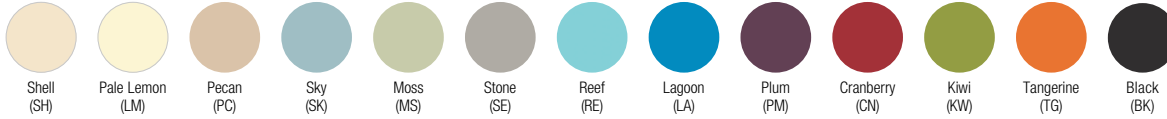
### STANDARD COLORS

Due to printing limitations, shade may vary from actual product.



### SUSTAIN™

(Suspension Systems chosen with these colors are part of the Sustain® Portfolio)



### ARCHITECTURAL FILM FINISHES

(Available with white or black background)



NOTE: White is standard color for all AXIOM products.

### WOOD LOOKS FINISHES



### BLIZZARD WHITE POWDER-COATED FINISH



NOTE: Blizzard White finish available on select Axiom® Classic, Knife Edge®, and Vector® trim profiles

# AXIOM® Classic

Trim  
straight and curved



This extruded aluminum perimeter trim is a solution for use as exposed custom decorative trim with suspended panels or drywall.

## KEY SELECTION ATTRIBUTES

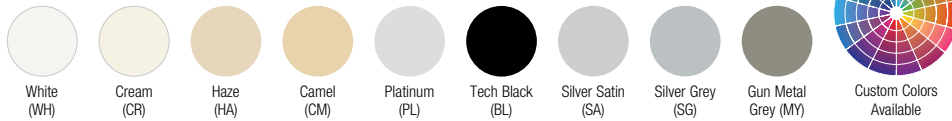
- new** Adjustable Trim Clip (7239) makes Axiom® Classic Trim compatible with WoodWorks® and MetalWorks™ panels that drop greater than 3/8" below the grid flange
- Crisp-edge detailing and excellent corrosion resistance compared to steel systems
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 481)
- Eight profile heights
- Compatible with Armstrong® Suspension Systems and Drywall Grid Systems
- Finely articulated drywall trim with beaded edge integrates with all trim profiles for pre-engineered drywall transitions
- Colors coordinate with Armstrong® ceiling and suspension systems
- Design flexibility for straight and curved applications
- 10-Year Limited warranty, 30-year system warranty



Custom slotting, perforating, and cutouts available for this Axiom® product.

**COLORS** Due to printing limitations, shade may vary from actual product.

### Standard



NOTE: 360° paint finishes and custom colors available as special order

### ARCHITECTURAL FILM FINISHES (white or black background)



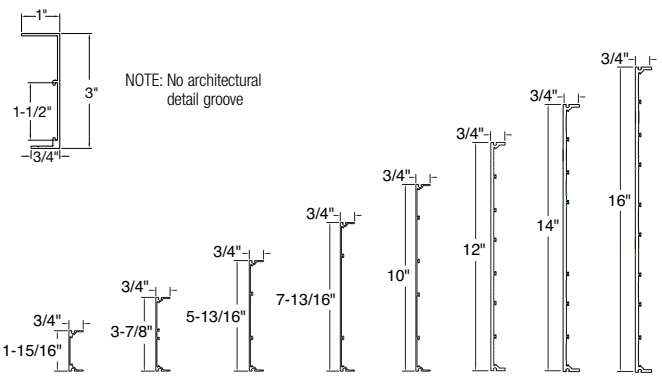
### BLIZZARD WHITE FINISH



## VISUAL SELECTION

Item No. ♦	Description	Dimensions
<b>AXIOM® Classic Trim (Available Straight or Curved)</b>		
AX16STR* ___	16" Straight	120 x 3/4 x 16"
AX16CUR* ___	16" Curved	Vary x 3/4 x 16"
AX14STR* ___	14" Straight	120 x 3/4 x 14"
AX14CUR* ___	14" Curved	Vary x 3/4 x 14"
AX12STR ___	12" Straight	120 x 3/4 x 12"
AX12CUR* ___	12" Curved	Vary x 3/4 x 12"
AX10STR ___	10" Straight	120 x 3/4 x 10"
AX10CUR* ___	10" Curved	Vary x 3/4 x 10"
AX8STR ___	8" Straight	120 x 3/4 x 8"
AX8CUR* ___	8" Curved	Vary x 3/4 x 8"
AX6STR ___	6" Straight	120 x 3/4 x 6"
AX6CUR* ___	6" Curved	Vary x 3/4 x 6"
AX4STR ___	4" Straight	120 x 3/4 x 4"
AX4CUR* ___	4" Curved	Vary x 3/4 x 4"
AX3STR ___	3" Straight	120 x 3/4 x 3"
AX3CUR* ___	3" Curved	120 x 3/4 x 3"
AX2STR ___	2" Straight	120 x 3/4 x 2"
AX2CUR* ___	2" Curved	Vary x 3/4 x 2"

Trim Channel: Aluminum extrusions formed with distinct architectural detail groove on top and bottom flanges and special bosses to receive the T-Bar Connection Clip, Hanging Clip, and Splice Plate, to provide positive mechanical lock with no visible fasteners. Factory-finished to match approved samples. Factory or field-cut, mitered, and curved to match approved shop drawings.



\* Not available in architectural film finishes.

♦ Add the 2-digit color suffix to the item number when specifying or ordering (Example: AX2STR H A), add an extra digit "3" before the color suffix if paint is required inside and outside of trim (Example: AX2STR 3 H A).

# AXIOM® Classic

Trim  
straight and curved



**Declare<sup>SM</sup>**  
Living Building  
Challenge Compliant

**SUSTAIN<sup>SM</sup>**  
High Performance  
Sustainable  
Ceiling Systems

**50% RECYCLED CONTENT**  
ALUMINUM

Calculate LEED contribution at  
armstrongceilings.com/greengenie

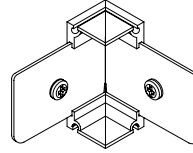
<b>LEED</b>	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT

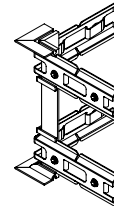
## VISUAL SELECTION

Item No. ♦	Description	Dimensions
<b>AXIOM® Classic Corner Posts*</b>		
<b>AX120SCP</b> _ _	12" Outside Corner Post	7/8 x 7/8 x 12"
<b>AX121SCP</b> _ _	12" Inside Corner Post	3/4 x 3/4 x 12"
<b>AX100SCP</b> _ _	10" Outside Corner Post	7/8 x 7/8 x 10"
<b>AX101SCP</b> _ _	10" Inside Corner Post	3/4 x 3/4 x 10"
<b>AX80SCP</b> _ _	8" Outside Corner Post	7/8 x 7/8 x 8"
<b>AX81SCP</b> _ _	8" Inside Corner Post	3/4 x 3/4 x 8"
<b>AX60SCP</b> _ _	6" Outside Corner Post	7/8 x 7/8 x 6"
<b>AX61SCP</b> _ _	6" Inside Corner Post	3/4 x 3/4 x 6"
<b>AX40SCP</b> _ _	4" Outside Corner Post	7/8 x 7/8 x 4"
<b>AX41SCP</b> _ _	4" Inside Corner Post	3/4 x 3/4 x 4"
<b>AX20SCP</b> _ _	2" Outside Corner Post	7/8 x 7/8 x 2"
<b>AX21SCP</b> _ _	2" Inside Corner Post	3/4 x 3/4 x 2"

Axiom corner posts eliminate miter cuts at corners for a fast and easy installation.



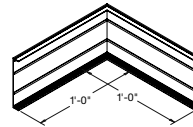
Axiom Outside Corner Post



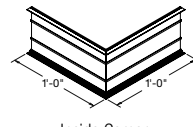
Axiom Inside Corner Post

<b>AXIOM® Classic Pre-mitered Corners</b>		
<b>AX16QSOS*</b> _ _ _	16" Outside Corner	12 x 3/4 x 16"
<b>AX16Q SIS*</b> _ _ _	16" Inside Corner	12 x 3/4 x 16"
<b>AX14QSOS*</b> _ _ _	14" Outside Corner	12 x 3/4 x 14"
<b>AX14Q SIS*</b> _ _ _	14" Inside Corner	12 x 3/4 x 14"
<b>AX12QSOS</b> _ _ _	12" Outside Corner	12 x 3/4 x 12"
<b>AX12Q SIS</b> _ _ _	12" Inside Corner	12 x 3/4 x 12"
<b>AX10QSOS</b> _ _ _	10" Outside Corner	12 x 3/4 x 10"
<b>AX10Q SIS</b> _ _ _	10" Inside Corner	12 x 3/4 x 10"
<b>AX8QSOS</b> _ _ _	8" Outside Corner	12 x 3/4 x 8"
<b>AX8Q SIS</b> _ _ _	8" Inside Corner	12 x 3/4 x 8"
<b>AX6QSOS</b> _ _ _	6" Outside Corner	12 x 3/4 x 6"
<b>AX6Q SIS</b> _ _ _	6" Inside Corner	12 x 3/4 x 6"
<b>AX4QSOS</b> _ _ _	4" Outside Corner	12 x 3/4 x 4"
<b>AX4Q SIS</b> _ _ _	4" Inside Corner	12 x 3/4 x 4"
<b>AX2QSOS</b> _ _ _	2" Outside Corner	12 x 3/4 x 2"
<b>AX2Q SIS*</b> _ _ _	2" Inside Corner	12 x 3/4 x 2"

Axiom factory-mitered inside and outside corner pieces are created to match your Axiom Trim channel order. These corners come as 2" – 12" long pieces that are assembled in the field for a clean mitered corner intersection.



Outside Corner



Inside Corner

### MINIMUM BEND RADIUS FOR AXIOM-CLASSIC

2", 4", 6", 8" – 24" Minimum  
12" – 36" Minimum  
14" – 60" Minimum

### AXIOM FACTORY MITER LIMIT

2", 4", 6", 8" – Minimum 30° acute angle (15° per cut)  
10", 12", 14", 16" – Minimum 60° acute angle (30° per cut)

\* Not available in architectural film finishes  
♦ Add the 2- or 3-digit color suffix to the item number when specifying or ordering (Example: AX2Q SIS H A).  
add an extra digit "3" before the color suffix if paint is required inside and outside of trim (Example: AX2Q SIS 3 H A).

## ACCESSORIES

Item No.	Description	
<b>AXAC</b>	Alignment Clip Sheet aluminum formed to fit into special trim channel bosses. Provides positive mechanical lock and screw-fastened connection to suspension members that intersect below the trim channel.	
<b>AX2HGC</b>	Hanging Clip Sheet aluminum formed to fit into special trim channel bosses. Provides positive mechanical lock and screw-fastened connection to suspension members that intersect below the trim channel.	
<b>AXTBC</b>	T-Bar Connection Clip Galvanized sheet steel formed to fit into special trim channel bosses. Provides positive mechanical lock with factory-installed screw, screw-fastened connection to suspension members that intersect the trim channel.	
<b>new 7239</b>	Adjustable Trim Clip Allows Axiom trim to be positioned up to 3-3/4" below the grid face to accommodate deeper panel offsets (best aesthetic with Axiom ≥ 6" tall)	
<b>AXSPlice</b>	Axiom Splice Plate 	
<b>AX4SPliceB</b>	Axiom Splice Plate Galvanized sheet steel formed to fit into the trim channel bosses. Provides positive lock between abutting channels with factory-installed setscrews. 	



# AXIOM® Drywall Trim

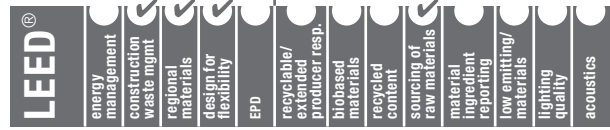
One-piece or Two-piece  
straight & curved



**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems

50%<sup>ALUMINUM</sup> RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie



LOCATION DEPENDENT



This pre-engineered vertical trim solution for 5/8" drywall eliminates vertical framing and provides architectural detail.

## KEY SELECTION ATTRIBUTES

- 2-1/2", 4", and 6" profile heights
- Integrated and pre-punched tapping flange for drywall attachment
- Available in White, standard colors, and unfinished for field painting
- Straight and curved options available
- Pre-engineered compatibility with 5/8" drywall

## TYPICAL APPLICATIONS

- Offices
- Retail
- Education
- Hospitality
- Healthcare
- Transportation
- Places of worship
- Conference rooms

### MINIMUM BEND RADIUS FOR AXIOM ONE-PIECE TRIM

Inside: 18" Minimum  
Outside: 18" Minimum

### MINIMUM BEND RADIUS FOR AXIOM TWO-PIECE TRIM

36" Minimum

## VISUAL SELECTION

Item No.*	Description
<b>AXIOM® – One-Piece Drywall Trim</b>	
<input type="checkbox"/> AX1PC2STR_ _	2-1/2" One-Piece Straight Drywall Trim
<input type="checkbox"/> AX1PC2CUR_ _	2-1/2" One-Piece Curved Drywall Trim
<input type="checkbox"/> AX1PC4STR_ _	4" One-Piece Straight Drywall Trim
<input type="checkbox"/> AX1PC4CUR_ _	4" One-Piece Curved Drywall Trim
<input type="checkbox"/> AX1PC6STR_ _	6" One-Piece Straight Drywall Trim
<input type="checkbox"/> AX1PC6CUR_ _	6" One-Piece Curved Drywall Trim
<b>AXIOM – Two-Piece Drywall Bottom Trim (used with AXIOM Classic, see BPCS-3080)</b>	
<input type="checkbox"/> AXBTSTR_ _	Axiom Straight Drywall Bottom Trim
<input type="checkbox"/> AXBTCUR_ _	Axiom Curved Drywall Bottom Trim
<b>AXIOM – Bottom Trim for AXIOM ACOUSTIBuilt™</b>	
<input type="checkbox"/> AXBTASTR_ _	Axiom Straight ACOUSTIBuilt Bottom Trim
<input type="checkbox"/> AXBTACUR_ _	Axiom Curved ACOUSTIBuilt Bottom Trim

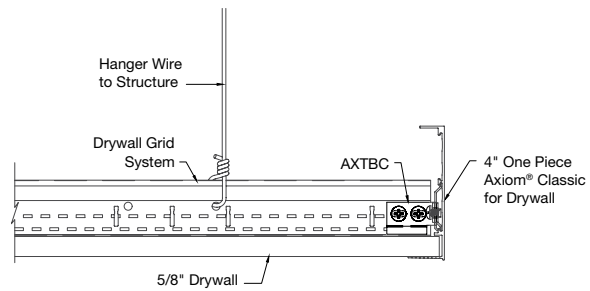
\* Add the 2- or 3-digit color suffix to the item number when specifying or ordering (e.g., AX1PC2STR H A)

## DETAILS

CAD drawings available at [armstrongceilings.com/axiom](http://armstrongceilings.com/axiom)

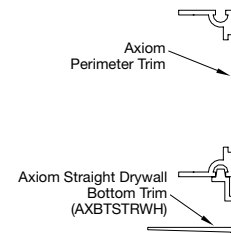
### One-piece Drywall Trim

One-Piece Drywall Trim: Integrated and pre-punched tapping flange for drywall attachment. Available in White, standard colors, and unfinished for field painting.



### Two-piece Drywall Trim

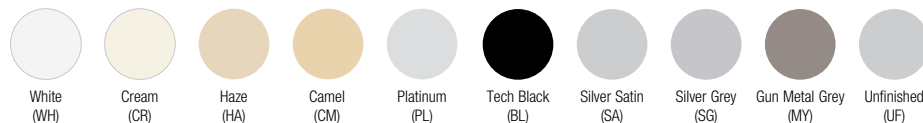
One-Piece Drywall Trim: Integrated and pre-punched tapping flange for drywall attachment. Available in White, standard colors, and unfinished for field painting.



## COLOR SELECTION

Due to printing limitations, shade may vary from actual product.

### Standard



## PHYSICAL DATA

**Material**  
Commercial quality extruded aluminum alloy 6063

**Surface Finish**  
Factory-applied baked polyester paint finish

**Warranty**  
10-year limited warranty  
30-year system warranty

**Profile**  
2", 4", and 6" wide face with 3/4" horizontal flange or integral tapping flange

**Cross Tee/Main Beam Interface**  
Flush Fit

**End Detail**  
Splice with screws

### ICC Reports

For areas under ICC jurisdiction, see evaluation report numbers ESR-1289 and ESR-1308 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The reports are subject to reexamination, revisions, and possible cancellation.



# AXIOM® Glazing Channel

Trim for Glass Partitions  
straight

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN™  
High Performance  
Sustainable  
Ceiling Systems

50% RECYCLED CONTENT  
ALUMINUM

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LEED®	energy management	construction waste to reuse	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-----------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



Axiom® extruded aluminum Glazing Channel trim for 3/8" and 1/2" glass partition walls offers fully concealed integration with all Armstrong® acoustical and drywall ceiling systems for a clean installed visual so glass can disappear into the plenum.\*

## KEY SELECTION ATTRIBUTES

- 5 trim profile options to coordinate with lay-in, Tegular and Vector® ceiling panels and drywall grid system
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 481)
- Coordinated fit and finish ensures delivery of design intent
- Seismic solution for category D, E, F installations
- Coordinates with Armstrong® ceiling and suspension systems, custom colors available
- 10-Year Limited Warranty, 30-Year System Warranty

## COLORS

### Standard



White  
(WH)



Custom Colors  
Available

\* Interior Glass Partition installation is also addressed on Pg. 441 (Integrated Ceiling Solutions – Common Conditions)

## VISUAL SELECTION

Item No.	Description	Dimensions	Profile
<b>AXIOM® Glazing Channel Trim</b>			
<b>AXGC</b>	Acoustical-to-Acoustical	120 x 2-7/16 x 2"	
<b>AXGCS</b>	Seismic Acoustical-to-Acoustical	120 x 3-1/4 x 2"	
<b>AXGCV</b>	Vector Acoustical-to-Acoustical	120 x 2-3/8 x 2-1/2"	
<b>AXGCAD</b>	Acoustical-to-Drywall	120 x 2-1/2 x 2"	
<b>AXGCD</b>	Drywall-to-Drywall	120 x 2-1/2 x 2"	

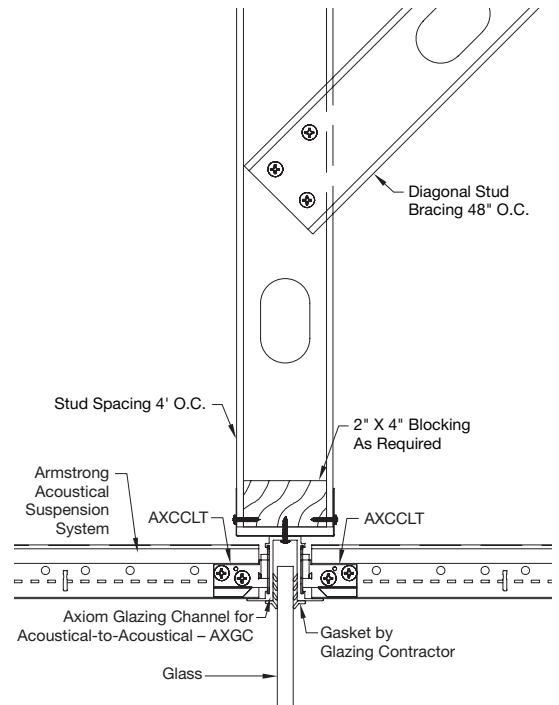
NOTE: Bottom and side U-Channels for glass installation provided by glazing contractor

## ACCESSORIES

Item No.	Description	Dimensions
<b>AX4SPLICE</b>	Splice Plate with Setscrews	—
<b>AXCCLT</b>	T-Bar Connector Twist Clip	—
<b>7239</b>	Adjustable Trim Clip**	—

\*\*For use with specialty ceilings with grid offset greater than 3/8"; installs with Drywall Grid System. Contact TechLine for details.

CAD drawings available at [armstrongceilings.com/axiom](http://armstrongceilings.com/axiom)



TRIM & TRANSITIONS

# AXIOM® for INTERLUDE®

Trim  
straight

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN™  
High Performance  
Sustainable  
Ceiling Systems



50% RECYCLED CONTENT

LEED	energy management	ALUMINUM	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
------	-------------------	----------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

Calculate LEED contribution at [armstrongceilings.com/greengene](http://armstrongceilings.com/greengene)

LOCATION DEPENDENT



This pre-engineered trim allows the continuation of the Interlude® XL® HRC suspension system visual to the perimeter of the ceiling.

## KEY SELECTION ATTRIBUTES

- Used exclusively with Interlude® XL® HRC suspension system (see Pgs. 452-453)
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain colors only (colors found on Pg. 481)
- Available in our most popular profile sizes (2", 4", and 6")
- New Interlude expansion sleeve (IES3) allows the unique Interlude visual to be extended to the perimeter
- Extruded aluminum trim provides more crisp edge detailing compared to conventional roll-formed steel systems
- Colors coordinate with Armstrong® ceiling and suspension systems; custom colors available

- Standard 90° factory-mitered outside and inside corners
- Recommended for use with full-size ceiling panels

## COLORS

Standard



White (WH)



Custom Colors Available

NOTE: 360° paint finishes and custom colors available as special order.

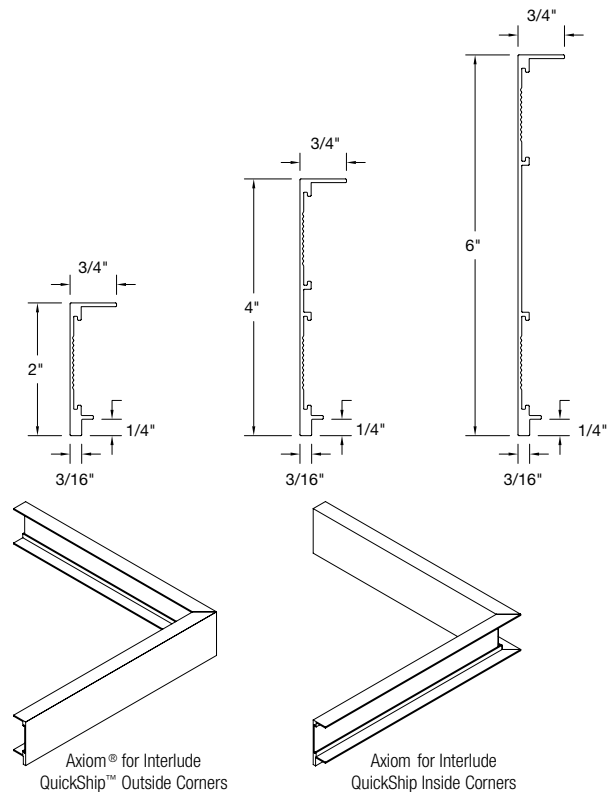
## VISUAL SELECTION

Item No. ♦	Description	Dimensions
<b>AXIOM® Trim for INTERLUDE® Suspension System</b>		
AXLD2STR _ _ _	Axiom for Interlude 2", Straight	120 x 3/16 x 2"
AXLD4STR _ _ _	Axiom for Interlude 4", Straight	120 x 3/16 x 4"
AXLD6STR _ _ _	Axiom for Interlude 6", Straight	120 x 3/16 x 6"
<b>AXIOM Trim for INTERLUDE Pre-mitered Corners</b>		
AXLD2QSOS _ _ _	Axiom for Interlude 2", Outside Corner	12 x 3/16 x 2"
AXLD2QISIS _ _ _	Axiom for Interlude 2", Inside Corner	12 x 3/16 x 2"
AXLD4QSOS _ _ _	Axiom for Interlude 4", Outside Corner	12 x 3/16 x 4"
AXLD4QISIS _ _ _	Axiom for Interlude 4", Inside Corner	12 x 3/16 x 4"
AXLD6QSOS _ _ _	Axiom for Interlude 6", Outside Corner	12 x 3/16 x 6"
AXLD6QISIS _ _ _	Axiom for Interlude 6", Inside Corner	12 x 3/16 x 6"
<b>Accessories</b>		
AX4SPLICEB	Splice Plate with Setscrews	3/4 x 3/16 x 6"
AXCCLT	T-Bar Connector Twist Clip	—
IES3	Interlude Expansion Sleeve	—

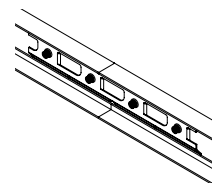
♦ Add the 2-digit color suffix to the item number when specifying or ordering (Example: AXLD6STR W H), add an extra digit "3" before the color suffix if paint is required inside and outside of trim (Example: AXLD6STR 3 W H).

NOTE: Clips and splice plates are unpainted. Touch-up paint available upon request for clips and splice plates used with standard colors.

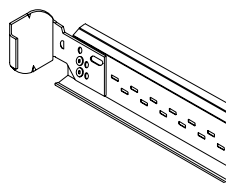
## DETAILS



## ACCESSORIES



Splice Plate (AX4SPLICEB)



T-Bar Connector Clip (AXCCLT)



# AXIOM® Knife Edge®

Trim  
straight

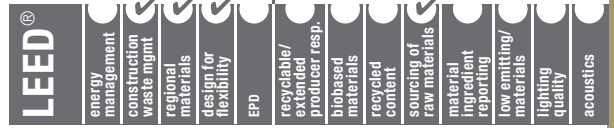
Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems



50% RECYCLED ALUMINUM CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie



LOCATION DEPENDENT



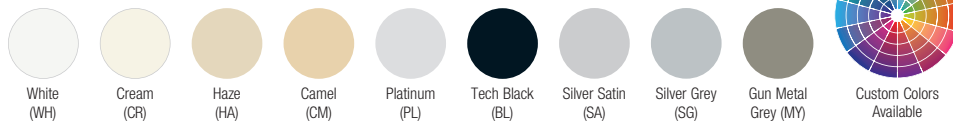
This trim is a unique, refined trim alternative compared to traditional, 90-degree vertical trims.

## KEY SELECTION ATTRIBUTES

- Adjustable Trim Clip (Item 7239) makes Knife Edge Trim compatible with WoodWorks® and MetalWorks™ panels or planks that drop greater than 3/8" below the grid flange
- Unique profile provides a refined alternative
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 481)
- Compatible with Armstrong® Suspension Systems and Drywall Grid Systems
- Three profiles available:
  - Axiom® Knife Edge®** for traditional acoustical lay-in and Tegular panels, as well as drywall
  - Axiom® Knife Edge® for Vector®** is specifically made to work with the unique Vector edge
  - Axiom Angled Knife Edge:** A minimalist knife edge that runs to the edge of a cloud
- Extruded aluminum trim provides more crisp edge detailing compared to conventional roll-formed steel systems
- Colors coordinate with Armstrong ceiling and suspension systems
- Standard 90° factory bonded corners

**COLORS** Due to printing limitations, shade may vary from actual product.

### Standard



NOTE: 360° paint finishes and custom colors available as special order

### ARCHITECTURAL FILM FINISHES (white or black background)



NOTE: White is standard color for all AXIOM products.

### BLIZZARD WHITE FINISH



## VISUAL SELECTION

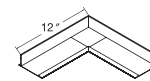
Item No. ◆	Description	Dimensions
<b>AXIOM® Knife Edge®</b>		
<b>AXKE2STR</b> _ _ _	Straight	120 x 6-3/16 x 2-1/2"
<b>AXKE90IC*</b> _ _ _	Inside 90° Corner	12 x 6-3/16 x 2-1/2"
<b>AXKE90OC*</b> _ _ _	Outside 90° Corner	12 x 6-3/16 x 2-1/2"
<b>AXKE5STR***</b>	Straight	120 x 6-3/16 x 5"
<b>AXKE5IC***</b>	Inside 90° Corner	12 x 6-3/16 x 5"
<b>AXKE5OC***</b>	Outside 90° Corner	12 x 6-3/16 x 5"
<b>AXIOM Knife Edge for Vector®*</b>		
<b>AXKEVE2STR</b> _ _ _	Vector – Straight	120 x 5-9/16 x 2-5/16"
<b>AXKEVE90IC*</b> _ _ _	Inside 90° Corner	12 x 5-9/16 x 2-5/16"
<b>AXKEVE90OC*</b> _ _ _	Outside 90° Corner	12 x 5-9/16 x 2-5/16"

◆ Add the 2-digit color suffix to the item number when specifying or ordering (Example: AX2STR H A), add an extra digit "3" before the color suffix if paint is required inside and outside of trim (Example: AXKE2STR 3 H A), use extra suffix W-white or B-black before color suffix when ordering film to designate the background color (Example: AXKE2STR B B B).

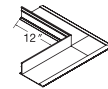
\* Axiom Knife Edge must use factory corners. \*\* Recommended with 5" Knife Edge. Clip could be visible with 2" trim. \*\*\* Only available in White.

**DETAILS** For more information, see submittal BPCS-3080.

### Factory-Bonded corners

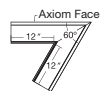


Axiom® Knife Edge® Factory-Bonded Inside Corner (AXKE90IC)

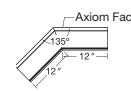


Axiom® Knife Edge® Factory-Bonded Outside Corner (AXKE90OC)

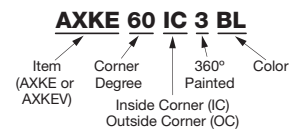
### Factory corner configurations available 60-135° (upon request)



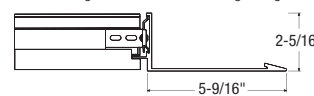
60° Corner



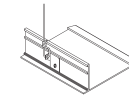
135° Corner



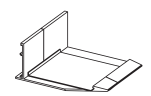
CAD drawings available on [armstrongceilings.com/axiom](http://armstrongceilings.com/axiom)



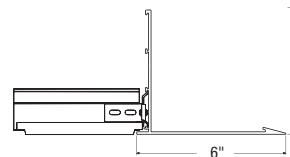
Axiom® Knife Edge® for Vector® profile



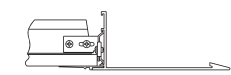
Axiom® Knife Edge® (AX2HGC)



Axiom® Knife Edge® Alignment Clip (AXKEALIGN)



Axiom® Knife Edge® profile



Axiom® Knife Edge® with Drywall (Use with AXVTBC and AXDWT)



TRIM & TRANSITIONS

# AXIOM® Knife Edge®

Trim  
straight

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

50% RECYCLED CONTENT

LEED<sup>SM</sup> energy management construction waste mgmt regional materials design for flexibility EPD recyclable/extended producer resp. biobased materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

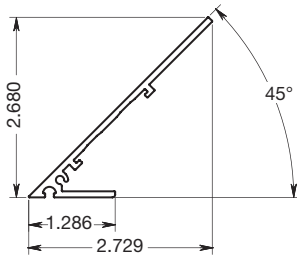
LOCATION DEPENDENT

## VISUAL SELECTION

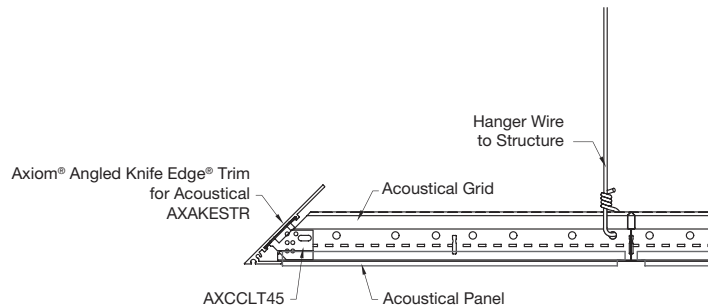
Item No. ♦	Description	Dimensions
<b>AXIOM® Angled Knife Edge®</b>		
<b>AXAKDSTR</b>	Axiom Angled Knife Edge Drywall	120" x 3" x 3"
<b>AXAKDIC</b>	Axiom Angled Knife Edge Drywall Inside Corner	12" x 3" x 3"
<b>AXAKDOC</b>	Axiom Angled Knife Edge Drywall Outside Corner	12" x 3" x 3"
<b>AXAKESTR</b>	Axiom Angled Knife Edge Acoustical	120" x 3" x 3"
<b>AXAKEIC</b>	Axiom Angled Knife Edge Acoustical Inside Corner	12" x 3" x 3"
<b>AXAKEOC</b>	Axiom Angled Knife Edge Acoustical Outside Corner	12" x 3" x 3"

Item No. ♦	Description	Dimensions
<b>Accessories</b>		
<b>AX2HGC</b>	Hanging Clip	–
<b>AXTBC</b>	T-Bar Connector Clip	–
<b>AXVTBC</b>	Vector T-Bar Connector Clip	–
<b>7239**</b>	Adjustable Trim Clip	–
<b>AX4SPLICE</b>	Splice Clip with Setscrews	–
<b>AXKEALIGN</b>	Alignment Clip	–
<b>AXSPTHDC</b>	Trim Hold-Down Clip	–
<b>AXDWT</b>	Drywall Trim	120 x 1-3/4"

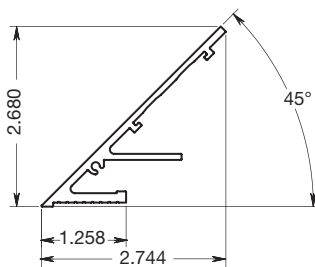
## DETAILS For more information, see submittal BPCS-3080.



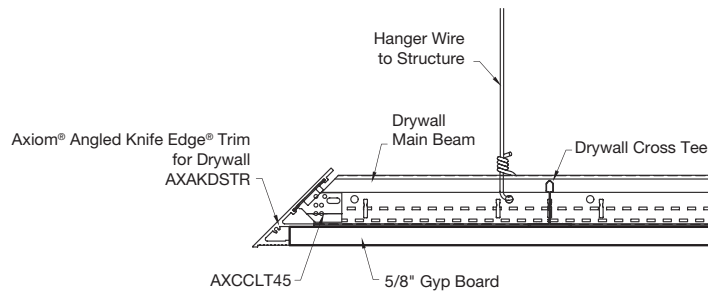
Axiom Angled Knife Edge Trim for Acoustical Panels



Axiom Angled Knife Edge Trim for Acoustical Panels



Axiom Angled Knife Edge Trim for Drywall



Axiom Angled Knife Edge Trim for Drywall

TRIM & TRANSITIONS

487A

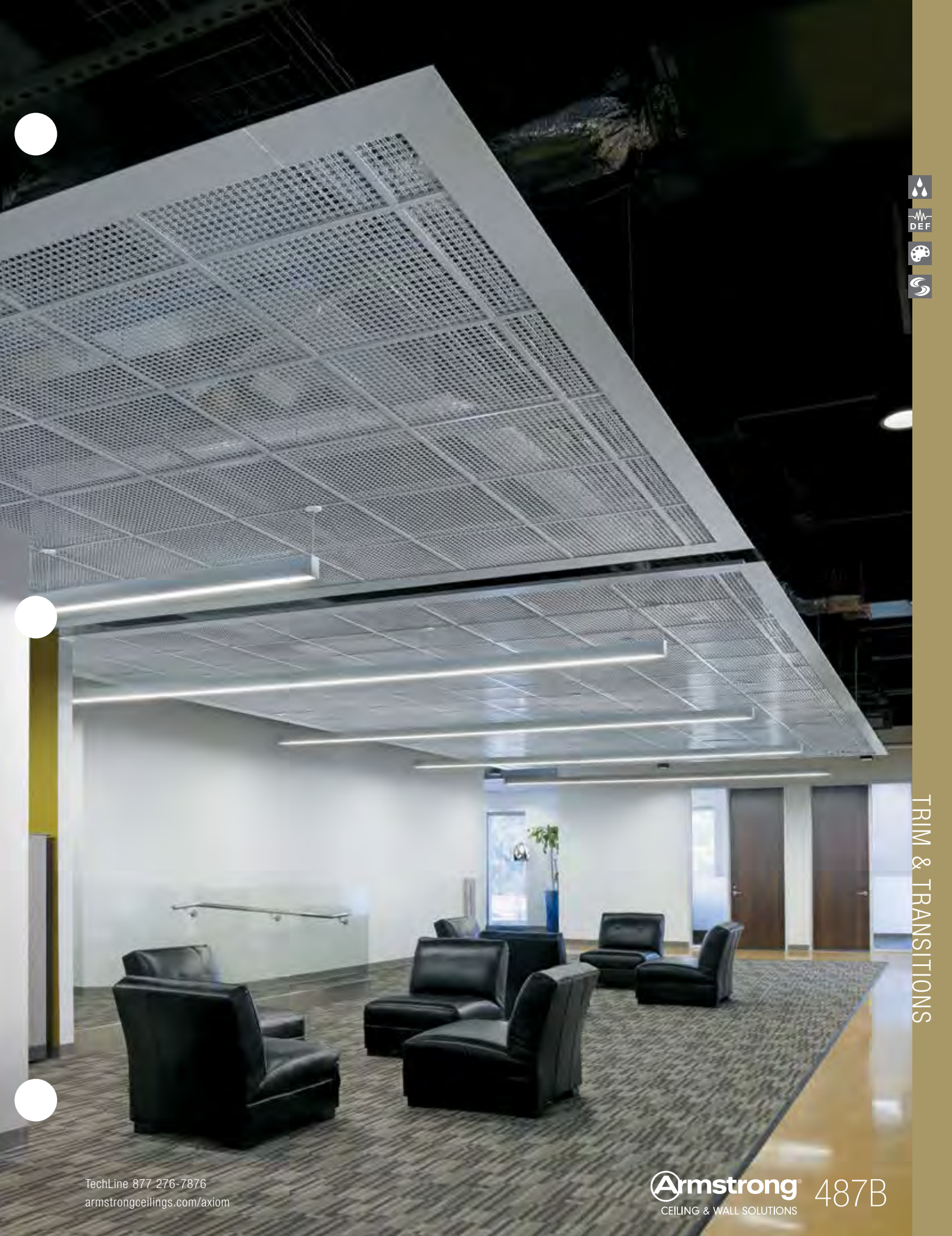
TechLine / 1 877 276 7876  
[armstrongceilings.com/axiom](http://armstrongceilings.com/axiom)

BPCS-3528-519

LEED® is a registered trademark of the U.S. Green Building Council®  
Declare™ is a service mark of The International Living Future Institute.  
All other trademarks used herein are the property of AWI Licensing LLC  
and/or its affiliates © 2019 AWI Licensing LLC  
Printed in the United States of America

**Armstrong**  
CEILING & WALL SOLUTIONS





TRIM & TRANSITIONS

TechLine 877-276-7876  
armstrongceilings.com/axiom

**Armstrong** 487B  
CEILING & WALL SOLUTIONS

# AXIOM® Paired

For AXIOM® Classic or AXIOM® Vector®  
Straight and Curved Suspension Systems



50% ALUMINUM RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



Axiom® – Paired trim in Sliver Grey

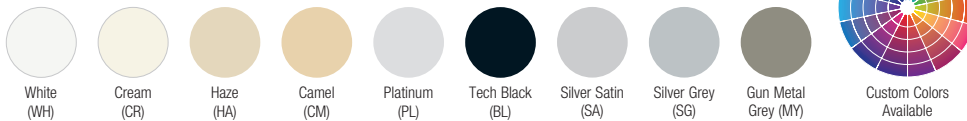
Create a dramatic contemporary design aesthetic using Axiom® Classic or Vector® trim profiles.

### KEY SELECTION ATTRIBUTES

- Unique system allows tandem sections of curved or straight Axiom trim to run parallel with a 5/8" or 1-3/8" reveal between profiles
  - Axiom Paired is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 481)
  - Design option to accent open plenum spaces or below acoustical ceilings
  - Extruded aluminum provides crisp profiles, smooth connections, and excellent corrosion resistance compared to steel systems
  - Colors coordinate with Armstrong® ceiling and suspension systems; custom colors available
  - Suspended from structure above or below acoustical ceiling
  - Accessories available to organize placement of lights
- Designed for 2", 4", 6", 8", 10", or 12" AXIOM Classic and 2", 4", 6", or 8" AXIOM Vector profiles  
Choose your profile first  
- Axiom Classic Pgs. 482-483  
- Axiom Vector Pg. 493

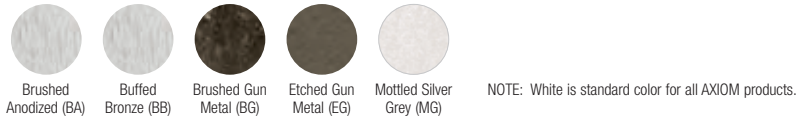
**COLORS** Due to printing limitations, shade may vary from actual product.

### Standard



NOTE: 360° paint finishes and custom colors available as special order

### ARCHITECTURAL FILM FINISHES (white or black background)



### VISUAL SELECTION

Item No. ♦	Description
<b>AXIOM Paired End Caps</b>	
<b>AX2WEC</b> _ _	Welded End Cap for 2" Axiom – Classic
<b>AX4WEC</b> _ _	Welded End Cap for 4" Axiom – Classic
<b>AX6WEC</b> _ _	Welded End Cap for 6" Axiom – Classic
<b>AX8WEC</b> _ _	Welded End Cap for 8" Axiom – Classic
<b>AX10WEC</b> _ _	Welded End Cap for 10" Axiom – Classic
<b>AX12WEC</b> _ _	Welded End Cap for 12" Axiom – Classic
<b>AXVE2WEC</b> _ _	Welded End Cap for 2" Axiom – Vector
<b>AXVE4WEC</b> _ _	Welded End Cap for 4" Axiom – Vector
<b>AXVE6WEC</b> _ _	Welded End Cap for 6" Axiom – Vector

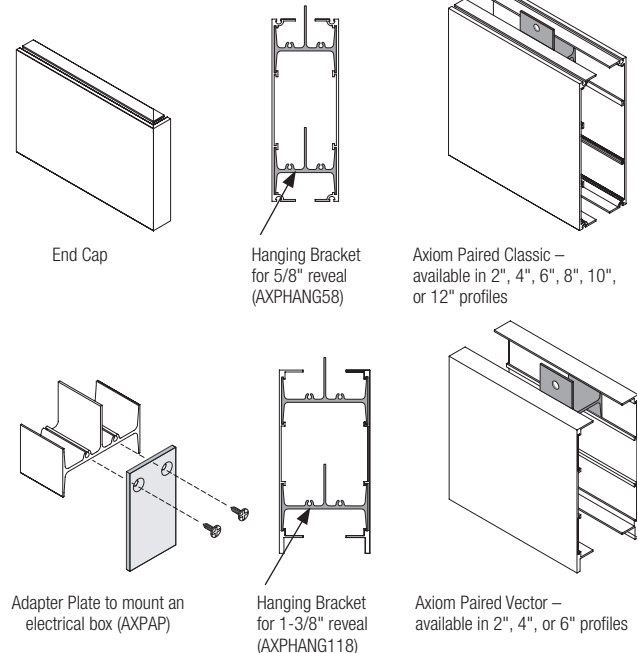
### Accessories

<b>AX4SPICEB</b>	Splice Plate with Setscrews
<b>AXPAP</b>	Adapter Plate for Electrical Box
<b>AXPHANG58</b>	Hanging Bracket for 5/8" reveal
<b>AXPHANG118</b>	Hanging Bracket for 1-3/8" reveal

♦ Add the 2-letter color suffix to the item number when specifying or ordering (Example: AX2WEC B L)

### DETAILS For more information, see submittal BPCS-3686.

CAD drawings available on [armstrongceilings.com/axiom](http://armstrongceilings.com/axiom)



NOTE: For all 4", 6", 8", 10", or 12" profiles, stack two Hanging Brackets on top of each other and place every 4' on center. Paired sections less than 4' long require two sets of Hanging Brackets per section.

# AXIOM® Profiled

Trim  
straight

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN™  
High Performance  
Sustainable  
Ceiling Systems

50% RECYCLED CONTENT  
ALUMINUM

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LEED®	energy management	construction waste to nrgt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	----------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



Axiom® Profiled Convex trim

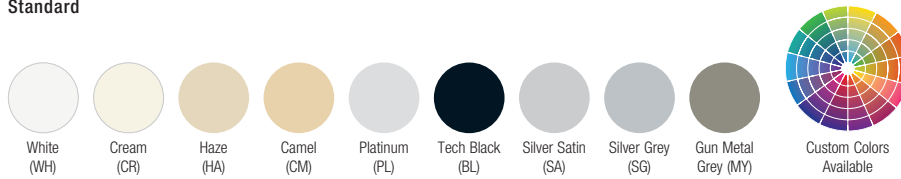
This pre-engineered trim offers four dramatic profiles that coordinate with acoustical or drywall ceilings for decorative finished visual.

### KEY SELECTION ATTRIBUTES

- Extruded aluminum provides crisp edge detailing and excellent corrosion resistance
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 481)
- Finely articulated drywall trim with beaded edge integrates with all trim profiles to provide a pre-engineered solution for drywall transitions
- Ultimate design flexibility – four decorative profiles; Convex, Concave, Cove, and Crown
- Colors coordinate with Armstrong® ceiling and suspension systems

**COLORS** Due to printing limitations, shade may vary from actual product.

### Standard



### VISUAL SELECTION

Item No. ♦	Description	Dimensions
<b>AXIOM Profiled Trim</b>		
<b>AXCOVE</b> _ _	Cove	120 x 3-1/2 x 3-1/2"
<b>AXCRWN</b> _ _	Crown	12 x 3 x 3-1/2"
<b>AXCNVX</b> _ _	Convex	12 x 5-1/4 x 2-1/2"
<b>AXCNCV</b> _ _	Concave	120 x 5-1/4 x 2-1/2"
<b>AXIOM Profiled Corners</b>		
<b>AXCOVEIS</b> * _ _	Cove Inside 90° Corner	12 x 3-1/2 x 3-1/2"
<b>AXCOVEOS</b> * _ _	Cove Outside 90° Corner	12 x 3-1/2 x 3-1/2"
<b>AXCRWNIS</b> * _ _	Crown Inside 90° Corner	12 x 3 x 3-1/2"
<b>AXCRWNOS</b> * _ _	Crown Outside 90° Corner	120 x 5-1/4 x 2-1/2"
<b>AXCNVXIS</b> * _ _	Convex Inside 90° Corner	12 x 5-1/4 x 2-1/2"
<b>AXCNVXOS</b> * _ _	Convex Outside 90° Corner	12 x 5-1/4 x 2-1/2"
<b>AXCNCVIS</b> * _ _	Concave Inside 90° Corner	12 x 5-1/4 x 2-1/2"
<b>AXCNCVOS</b> * _ _	Concave Outside 90° Corner	12 x 5-1/4 x 2-1/2"
<b>Accessories</b>		
<b>AXDWT</b>	Profiled AXIOM Drywall Taping Flange	120 x 1-3/4"
<b>AXAC</b>	Alignment Hanging Clip	-
<b>AXTBC</b>	T-Bar Connector Clip	-
<b>AX4SPICEB</b>	Splice Plate with Setscrews	-
<b>AXALIGN</b>	Profiled Alignment Clip	-
<b>AXSPTHDC</b>	Trim Hold Down Clip	-

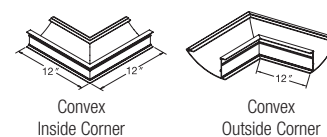
♦ Add the 2-letter color suffix to the item number when specifying or ordering (Example: AXCOVE H A)  
\* Axiom Profiled trim must use factory corners.

### DETAILS

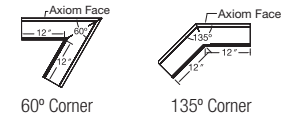
For more information, see submittal BPCS-3101.  
CAD drawings available on armstrongceilings.com/axiom



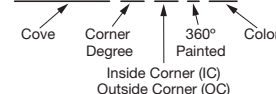
### Factory-bonded corners



### Factory corner configurations available 60-135°



### AXCOVE 60 IC 3 BL



TRIM & TRANSITIONS

# AXIOM® Soft Edge

Trim  
straight & curved

Declare™  
Living Building  
Challenge Compliant

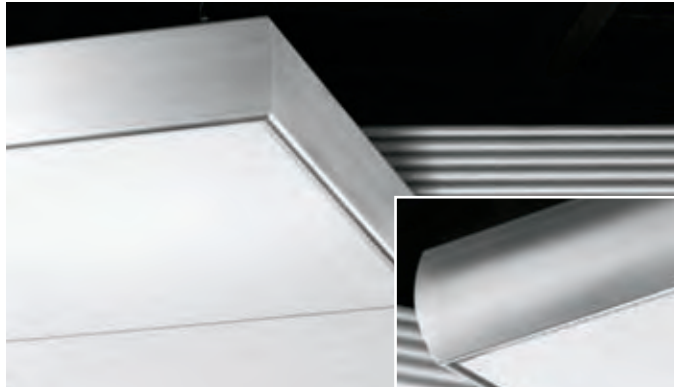
SUSTAIN™  
High Performance  
Sustainable  
Ceiling Systems

50%<sup>ALUMINUM</sup> RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengene

LEED	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



Soft Corner (L) and Ripple (R) trim with Optima® Vector® panels Inset: Convex

This soft-edge factory-finished trim is available in three profile types for acoustical clouds.

### KEY SELECTION ATTRIBUTES

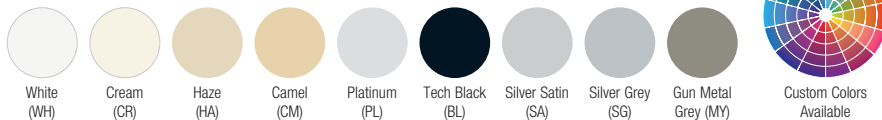
- Profile options:  
Ripple  
Soft Corner  
Convex
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 481)
- Incorporates the sophisticated grid-hiding visual of a Vector® ceiling with a similar 1/4" reveal along the trim
- Design flexibility for straight and curved applications

### MINIMUM BEND RADIUS FOR AXIOM® Soft Edge

	Outside Curve (face out)	Inside Curve (face in)
Soft Corner	10'	4'
Ripple	5'	4'
Convex	cannot curve	cannot curve

**COLORS** Due to printing limitations, shade may vary from actual product.

### Standard



NOTE: 360° paint finishes and custom colors available as special order

### VISUAL SELECTION

Item No. ♦	Description	Dimensions
<b>AXIOM Soft Edge Ripple</b>		
AXSER2STR_ _ _	2-1/2" Straight	120 x 3/4 x 2-1/2"
AXSER2CUR_ _ _	2-1/2" Curved	Vary x 3/4 x 2-1/2"
AXSER4STR_ _ _	4" Straight	120 x 3/4 x 4"
AXSER4CUR_ _ _	4" Curved	Vary x 3/4 x 4"
AXSER8STR_ _ _	8" Straight	120 x 3/4 x 8"
AXSER8CUR_ _ _	8" Curved	Vary x 3/4 x 8"
<b>AXIOM Soft Edge Ripple Corners</b>		
AXSER2INCNR_ _ _	2-1/2" Straight	12 x 3/4 x 2-1/2"
AXSER2OCCNR_ _ _	2-1/2" Curved	12 x 3/4 x 2-1/2"
AXSER4INCNR_ _ _	4" Straight	12 x 3/4 x 4"
AXSER4OCCNR_ _ _	4" Curved	12 x 3/4 x 4"
AXSER8INCNR_ _ _	8" Straight	12 x 3/4 x 8"
AXSER8OCCNR_ _ _	8" Curved	12 x 3/4 x 8"
<b>AXIOM Soft Edge Soft Corners</b>		
AXSES2STR_ _ _	2-1/2" Straight	120 x 3/4 x 2-1/2"
AXSES2CUR_ _ _	2-1/2" Curved	Vary x 3/4 x 2-1/2"
AXSES4STR_ _ _	4" Straight	120 x 3/4 x 4"
AXSES4CUR_ _ _	4" Curved	Vary x 3/4 x 4"

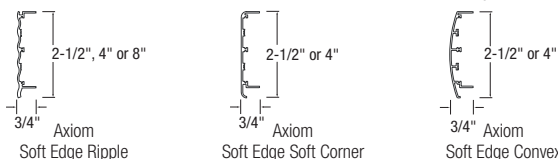
Item No. ♦	Description	Dimensions
<b>AXIOM Soft Edge Soft Corner Corners</b>		
AXSES2INCNR_ _ _	2-1/2" Inside Corner	12 x 3/4 x 2-1/2"
AXSES2OCCNR_ _ _	2-1/2" Outside Corner	12 x 3/4 x 2-1/2"
AXSEC4INCNR_ _ _	4" Inside Corner	12 x 3/4 x 4"
AXSEC4OCCNR_ _ _	4" Outside Corner	12 x 3/4 x 4"
<b>AXIOM Soft Edge Convex</b>		
AXSEC2STR_ _ _	2-1/2" Straight	120 x 3/4 x 2-1/2"
AXSEC4STR_ _ _	4" Straight	120 x 3/4 x 4"
<b>AXIOM Soft Edge Convex Corners</b>		
AXSEC2INCNR_ _ _	2-1/2" Inside Corner	12 x 3/4 x 2-1/2"
AXSEC2OCCNR_ _ _	2-1/2" Outside Corner	12 x 3/4 x 2-1/2"
AXSEC4INCNR_ _ _	4" Inside Corner	12 x 3/4 x 4"
AXSEC4OCCNR_ _ _	4" Outside Corner	12 x 3/4 x 4"

### Accessories

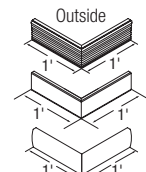
AXTBC	T-Bar Connector Clip	–
AX4SPICEB	Splice Plate with Setscrews	–

♦ Add the 3-letter type and color suffix to the item number when specifying or ordering (e.g., AXSER2STR H A), add an extra digit "3" before the color suffix if paint is required inside and outside of trim (Example: AXSER2STR 3 H A)

**DETAILS** For more information, see submittal BPCS-3879. CAD drawings available on [armstrongceilings.com/axiom](http://armstrongceilings.com/axiom)



Axiom Soft Edge  
Ripple  
Axiom Soft Edge  
Soft Corner  
Axiom Soft Edge  
Convex



# AXIOM® Transitions

Trim  
straight & curved

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems



50% ALUMINUM RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LEED<sup>®</sup>

- energy management
- construction waste to right
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT



Axiom® Transitions trim

Fast and easy way to create crisp transitions between ceiling planes regardless of material type.

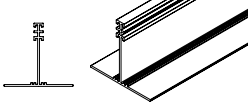
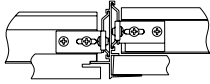
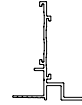
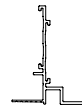
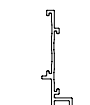
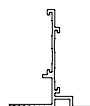
## KEY SELECTION ATTRIBUTES

- Adjustable Trim Clip (Item 7239) makes Axiom Transitions compatible with WoodWorks® and MetalWorks™ panels or planks that drop greater than 3/8" below the grid flange
- Axiom Transitions is an aluminum extrusion to create a smooth transition between drywall and suspended ceilings (mineral fiber, metal, or wood)
- Extruded aluminum trim provides more crisp edge detailing compared to conventional roll-formed steel systems
- Axiom is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- Compatible with Armstrong® suspension systems and Drywall Grid Systems
- Acoustical-to-Drywall Transitions** are available straight and curved for perfect fit and finish every time
- Axiom Transitions – Vector®** is available straight only for use with full size Vector panels (field cutting Vector panels can be avoided)
- Axiom Transitions – Elevation Change** accommodates Acoustical-to-Acoustical, Acoustical-to-Drywall, Drywall-to-Acoustical, Drywall-to-Drywall height transitions of 2", 4", 6", 8", and 10"
- Minimum Bend Radius for Transitions – Elevation Change 2", 4", 6", and 8" is 48", 10" is 60"
- Minimum Bend Radius for Transitions – No Elevation Change (refer to the middle of page 2 for minimum bend radius)

## TYPICAL APPLICATIONS

- Offices
- Retail
- Education
- Hospitality
- Healthcare

## VISUAL SELECTION

Item No.♦	Description	Dimensions (Inches)	
<b>AXIOM Transitions (no elevation change)</b>			
<input type="checkbox"/> AXSJ	10' Axiom® Slip Joint	120 x 24 x 2-1/16"	
<input type="checkbox"/> AXTRVESTR_ _	Straight Transition for Vector	120 x 2-9/16 x 1-11/16"	
NOTE: For use with full-sized Vector panels.			
<b>AXIOM Transitions (no elevation change) – Dimensional</b>			
<input type="checkbox"/> AXTR7901STR_ _	9/16" Shadow Reveal Transition Molding, Straight	120 x 2-9/16 x 1-13/16"	
<input type="checkbox"/> AXTR7901CUR_ _	9/16" Shadow Reveal Transition Molding, Curved	Vary x 2-9/16 x 1-13/16"	
<input type="checkbox"/> AXTR7902STR_ _	15/16" Shadow Reveal Transition Molding, Straight	120 x 2-9/16 x 2-3/16"	
<input type="checkbox"/> AXTR7902CUR_ _	15/16" Shadow Reveal Transition Molding, Curved	Vary x 2-9/16 x 2-3/16"	
<b>AXIOM Transitions (no elevation change) – Exposed Tee</b>			
<input type="checkbox"/> AXTR7911STR	9/16" Shadow Reveal Transition Molding Straight	120 x 9/16 x 2-1/2"	
<input type="checkbox"/> AXTR7911CUR	9/16" Shadow Reveal Transition Molding Curved	120 x 9/16 x 2-1/2"	
<input type="checkbox"/> AXTR7912STR	15/16" Shadow Reveal Transition Molding Straight	120 x 15/16 x 2-1/2"	
<input type="checkbox"/> AXTR7912CUR	15/16" Shadow Reveal Transition Molding Curved	120 x 15/16 x 2-1/2"	



# AXIOM® Transitions

Trim  
straight & curved

VISUAL SELECTION continued

Item No.*	Description	Dimensions (Inches)	
<b>AXIOM Transitions (no elevation change) – Any Suspension System</b>			
<input type="checkbox"/> AXTR7904STR_	15/16" Flush Transition Molding, Straight	120 x 2-9/16 x 1-3/4"	
<input type="checkbox"/> AXTR7904CUR_	15/16" Flush Transition Molding, Curved	Vary x 2-9/16 x 1-3/4"	
<input type="checkbox"/> AXTR7905STR_	9/16" Flush Transition Molding, Straight	120 x 2-9/16 x 1-3/8"	
<input type="checkbox"/> AXTR7905CUR_	9/16" Flush Transition Molding, Curved	Vary x 2-9/16 x 1-3/8"	
<input type="checkbox"/> AXTR7906STR_	"F" Type Molding, Straight	120 x 1-13/16 x 1-11/16"	
<input type="checkbox"/> AXTR7906CUR_	"F" Type Molding, Curved	Vary x 1-13/16 x 1-11/16"	
<input type="checkbox"/> AXTR7907STR_	9/16" Tegular Transition Molding, Straight	120 x 2-9/16 x 1-11/16"	
<input type="checkbox"/> AXTR7907CUR_	9/16" Tegular Transition Molding, Curved	Vary x 2-9/16 x 1-11/16"	
<input type="checkbox"/> AXTR7908STR_	15/16" Tegular Transition Molding, Straight	120 x 2-9/16 x 1-13/16"	
<input type="checkbox"/> AXTR7908CUR_	15/16" Tegular Transition Molding, Curved	Vary x 2-9/16 x 1-13/16"	
<input type="checkbox"/> AXTR7909STR_	15/16" Tegular Transition Molding – 1" Height, Straight	120 x 2-13/16 x 1-11/16"	
<input type="checkbox"/> AXTR7909CUR_	15/16" Tegular Transition Molding – 1" Height, Curved	Vary x 2-13/16 x 1-11/16"	
<input type="checkbox"/> AXTR7910STR_	9/16" Tegular Transition Molding – 1" Height, Straight	120 x 2-13/16 x 1-3/8"	
<input type="checkbox"/> AXTR7910CUR_	9/16" Tegular Transition Molding – 1" Height, Curved	Vary x 2-13/16 x 1-3/8"	
<input type="checkbox"/> AX15DSCSTR_	1-1/2" Acoustical Double-sided Connection, Straight	120 x 1-15/16 x 1-1/2"	
<input type="checkbox"/> AX15DSCCUR_	1-1/2" Acoustical Double-sided Connection, Curved	Vary x 1-15/16 x 1-1/2"	
<input type="checkbox"/> AXFFP4_	Axiom Field Face Plate	120" – 4" Unslotted	
<input type="checkbox"/> AXFFP6_	Axiom Field Face Plate	120" – 6" Unslotted	

\* Add the 2-letter color suffix to the item number when specifying or ordering (e.g., AXTR7907STR H Δ).

### MINIMUM BEND RADIUS:

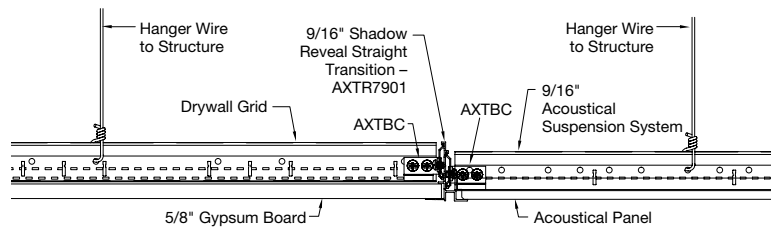
Profile: AXTR7901  
Inside Curve – 48", Outside Curve – 120"

Profiles: AXTR7902, AXTR7904, AXTR7905  
Inside Curve – 96", Outside Curve – 600"

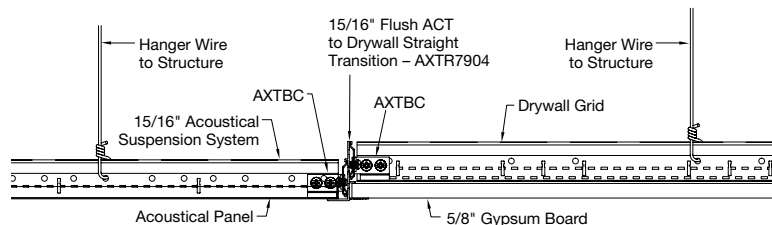
Profiles: AXTR7906, AXTR7907, AXTR7908, AXTR7909, AXTR7910  
Inside and Outside Curve – 48"

Profile: AX15DSC  
Inside and Outside Curve – 60"

AXTR7901



AXTR7904

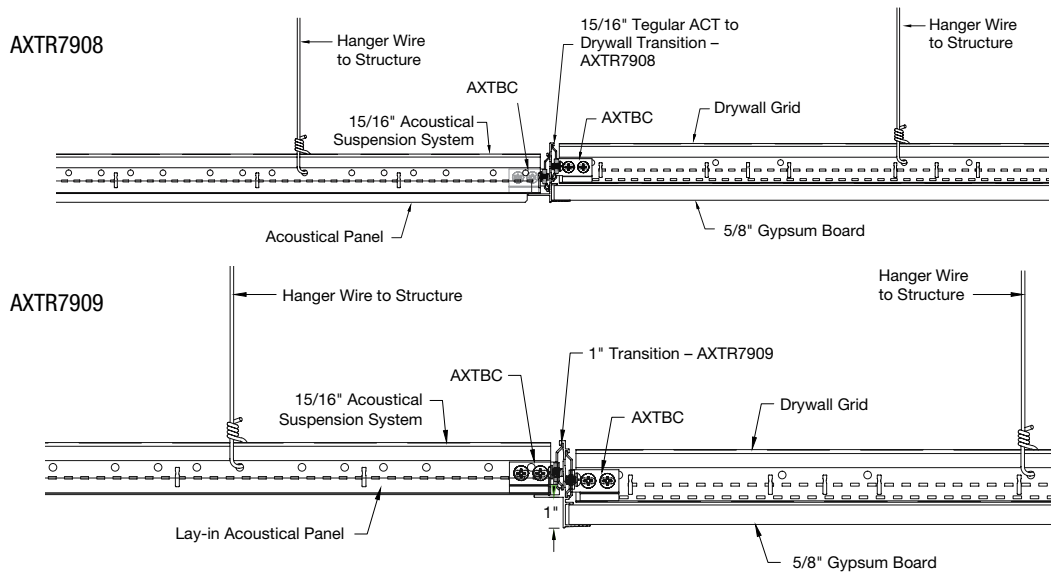


TRIM & TRANSITIONS

# AXIOM® Transitions

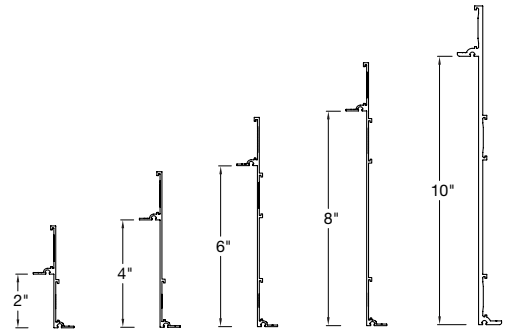
Trim  
straight & curved

VISUAL SELECTION continued



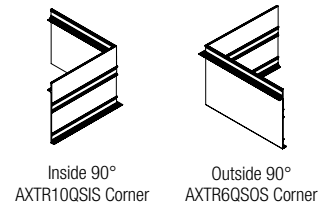
## AXIOM Transitions (elevation change)

Item No.*	Description	Dimensions (Inches)
<input type="checkbox"/> AXTR2STR_ _	2" Straight Transition	120 x 2 x 1-1/2"
<input type="checkbox"/> AXTR2CUR_ **	2" Curved Transition	Vary x 2 x 1-1/2"
<input type="checkbox"/> AXTR4STR_ _	4" Straight Transition	120 x 4 x 1-1/2"
<input type="checkbox"/> AXTR4CUR_ **	4" Curved Transition	Vary x 4 x 1-1/2"
<input type="checkbox"/> AXTR6STR_ _	6" Straight Transition	120 x 6 x 1-1/2"
<input type="checkbox"/> AXTR6CUR_ **	6" Curved Transition	Vary x 6 x 1-1/2"
<input type="checkbox"/> AXTR8STR_ _	8" Straight Transition	120 x 8 x 1-1/2"
<input type="checkbox"/> AXTR8CUR_ **	8" Curved Transition	Vary x 8 x 1-1/2"
<input type="checkbox"/> AXTR10STR_ _	10" Straight Transition	120 x 10 x 1-1/2"
<input type="checkbox"/> AXTR10CUR_ ***	10" Curved Transition	Vary x 10 x 1-1/2"



\* Add the 2-letter color suffix to the item number when specifying or ordering (e.g., AXTR2STR H A).  
 \*\* Minimum bending radius is 48" \*\*\* Minimum bending radius is 60"  
 † Items available in Standard, Premium, and Blizzard White powder coated finish

Item No.*	Description	Dimensions (Inches)
<b>AXIOM Transitions QuickShip™ Corners</b>		
<input type="checkbox"/> AXTR2QIS_ _	2" Transition Inside Corner	12 x 2 x 1-1/2"
<input type="checkbox"/> AXTR2QSOS_ _	2" Transition Outside Corner	12 x 2 x 1-1/2"
<input type="checkbox"/> AXTR4QIS_ _	4" Transition Inside Corner	12 x 4 x 1-1/2"
<input type="checkbox"/> AXTR4QSOS_ _	4" Transition Outside Corner	12 x 4 x 1-1/2"
<input type="checkbox"/> AXTR6QIS_ _	6" Transition Inside Corner	12 x 6 x 1-1/2"
<input type="checkbox"/> AXTR6QSOS_ _	6" Transition Outside Corner	12 x 6 x 1-1/2"
<input type="checkbox"/> AXTR8QIS_ _	8" Transition Inside Corner	12 x 8 x 1-1/2"
<input type="checkbox"/> AXTR8QSOS_ _	8" Transition Outside Corner	12 x 8 x 1-1/2"
<input type="checkbox"/> AXTR10QIS_ _	10" Transition Inside Corner	12 x 10 x 1-1/2"
<input type="checkbox"/> AXTR10QSOS_ _	10" Transition Outside Corner	12 x 10 x 1-1/2"



\* Add the 2-letter color suffix to the item number when specifying or ordering (e.g., AXTR2QISIS H A).  
 Axion pre-mitered corners are field assembled



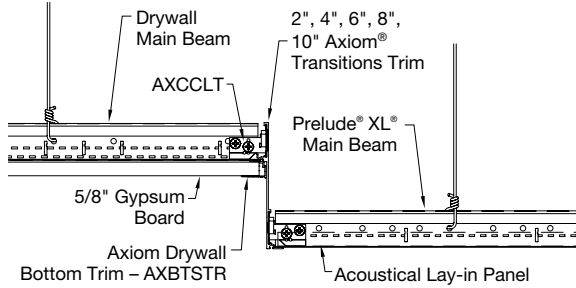
# AXIOM® Transitions

Trim  
straight & curved

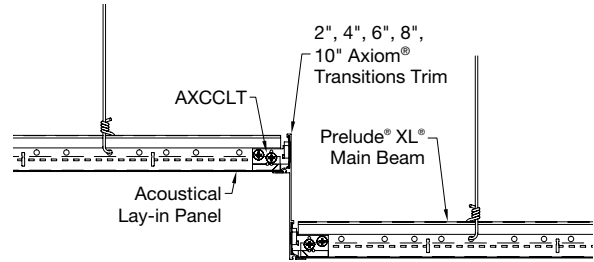
## DETAILS

CAD drawings available on [armstrongceilings.com/axiom](http://armstrongceilings.com/axiom)

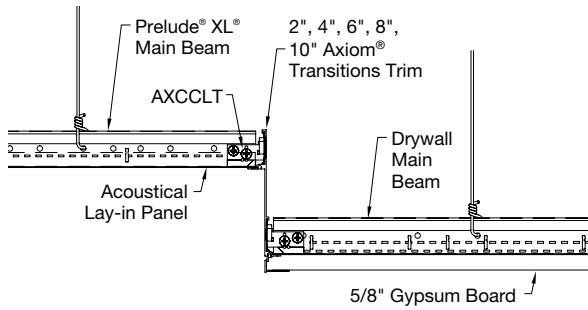
### Drywall-to-Acoustical



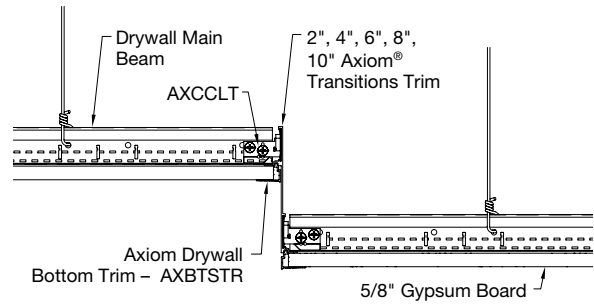
### Acoustical-to-Acoustical



### Acoustical-to-Drywall



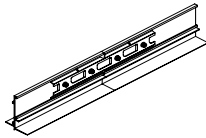
### Drywall-to-Drywall



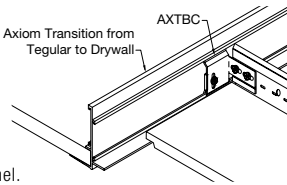
## ACCESSORIES

### Item Number Description

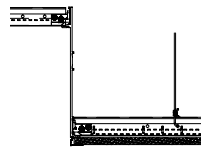
- AX4SPLICEB** Splice Plate: Galvanized sheet steel formed to fit into the trim channel bosses and provide positive lock between abutting channels with factory-installed screws.



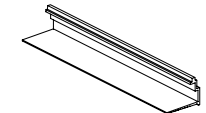
- AXTBC** T-Bar Connector Clip: Sheet aluminum formed to fit into special trim channel bosses and provide positive mechanical lock with factory-installed screw, screw-fastened connection to suspension system members which intersect the trim channel.



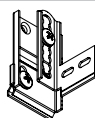
- AXCCLT** T-Bar Connector Twist Clip



- AXBTSTR** Axiom Bottom Drywall Trim Straight for 5/8" Drywall. 120 x 1-1/8 x 27/32". Used with Axiom Transitions items featuring an elevation change on a drywall condition.



- 7239** Adjustable Trim Clip\*\*\*



\*\*\* To be used with wood or metal panels that drop below grid by greater than 3/8" – only compatible with Transitions with no elevation change.

## COLORS

Due to printing limitations, shade may vary from actual product.

### Standard



**NOTE:** Colors available on Transitions (elevation change)  
360° paint finishes and custom colors available as special order  
Blizzard White finish available on select Axiom® Transitions

## PHYSICAL DATA

### Material

Trim Channel: Extruded aluminum, alloy 6063  
Hanging Clip: Commercial quality aluminum  
T-Bar Connector Clip: Commercial quality aluminum  
Splice Plate: Galvanized steel

### Surface Finish

Factory-applied baked polyester paint finish

### Cross Tee/Main Beam Interface

Flush fit

### End detail

Splice with screws

### Warranty

10-Year Limited Warranty  
30-Year System Warranty





# AXIOM® Vector®

Trim  
straight & curved

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

50% RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LEED<sup>®</sup> energy management construction waste to right regional materials design for flexibility EPD recyclable/extended producer resp. high-based materials recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

LOCATION DEPENDENT



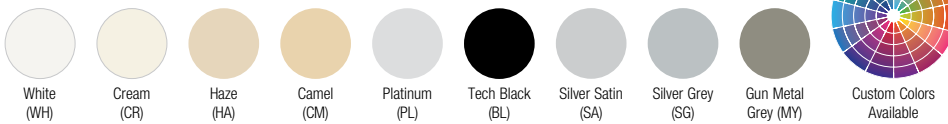
This trim coordinates perfectly with Armstrong® Vector® ceiling panels to mimic the 1/4" reveal with a narrow vertical fin profile.

### KEY SELECTION ATTRIBUTES

- Adjustable Trim Clip (Item 7239) makes Axiom® Vector Trim compatible with WoodWorks and MetalWorks panels or planks that drop greater than 3/8" below the grid flange
- Incorporates the sophisticated grid-hiding visual of a Vector ceiling with a perimeter
- Axiom trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 481)
- Recommended for use with full-size Vector ceiling panels; preserves factory-cut Vector edge detail
- Standard 90° factory-mitered inside corner and outside corner posts available
- Colors coordinate with Armstrong® ceiling and suspension systems
- Extruded aluminum trim provides more crisp edge detailing compared to conventional roll-formed steel systems
- Compatible with Armstrong® exposed suspension systems and Drywall Grid Systems
- Custom slotting, perforating, and cutouts available

**COLORS** Due to printing limitations, shade may vary from actual product.

### Standard



NOTE: 360° paint finishes and custom colors available as special order

### ARCHITECTURAL FILM FINISHES (white or black background)



NOTE: White is standard color for all AXIOM products.

### BLIZZARD WHITE FINISH



NOTE: Blizzard White finish available on select Axiom® Classic, Knife Edge®, and Vector® trim profiles

### WOOD LOOKS FINISHES



### VISUAL SELECTION

Item No. ◆	Description	Dimensions
<b>AXIOM Vector</b>		
AX2VESTR_ _ _	2" Straight	120 x 3/4 x 2"
AX2VECUR_ _ _	2" Curved	Vary x 3/4 x 2"
AX4VESTR_ _ _	4" Straight	120 x 3/4 x 4"
AX4VECUR_ _ _	4" Curved	Vary x 3/4 x 4"
AX6VESTR_ _ _	6" Straight	120 x 3/4 x 6"
AX6VECUR_ _ _	6" Curved	Vary x 3/4 x 6"
AX8VESTR_ _ _	8" Straight	120 x 3/4 x 8"
AX8VECUR_ _ _	8" Curved	Vary x 3/4 x 8"
<b>AXIOM Vector Pre-mitered Corners</b>		
AX2VEQIS_ _ _	2" Inside Corner	12 x 3/4 x 2"
AX2VEQSOS_ _ _	2" Outside Corner	12 x 3/4 x 2"
AX4VEQIS_ _ _	4" Inside Corner	12 x 3/4 x 4"
AX4VEQSOS_ _ _	4" Outside Corner	12 x 3/4 x 4"
AX6VEQIS_ _ _	6" Inside Corner	12 x 3/4 x 6"
AX6VEQSOS_ _ _	6" Outside Corner	12 x 3/4 x 6"
AX8VEQIS_ _ _	8" Inside Corner	12 x 3/4 x 8"
AX8VEQSOS_ _ _	8" Outside Corner	12 x 3/4 x 8"

◆ Add the 3-letter type and color suffix to the item number when specifying or ordering (Example: AX8VESTR H A), add an extra digit "3" before the color suffix if paint is required inside and outside of trim (Example: AX8VESTR 3 H A)

\* Not available in architectural film finishes

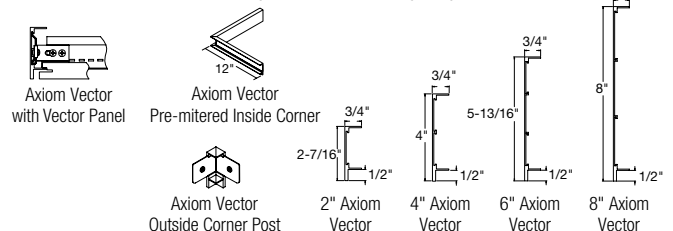
Item No. ◆	Description	Dimensions
<b>AXIOM Vector Corner Posts*</b>		
AX2VEISCP_ _ _	2" Inside Corner Post	3/4 x 3/4 x 2"
AX2VEOSCP_ _ _	2" Outside Corner Post	3/4 x 3/4 x 2"
AX4VEISCP_ _ _	4" Inside Corner Post	3/4 x 3/4 x 4"
AX4VEOSCP_ _ _	4" Outside Corner Post	3/4 x 3/4 x 4"
AX6VEISCP_ _ _	6" Inside Corner Post	3/4 x 3/4 x 6"
AX6VEOSCP_ _ _	6" Outside Corner Post	3/4 x 3/4 x 6"
AX8VEISCP_ _ _	8" Inside Corner Post	3/4 x 3/4 x 8"
AX8VEOSCP_ _ _	8" Outside Corner Post	3/4 x 3/4 x 8"

### Accessories

AX4SPLICEB	Splice Plate with Setscrews	—
AXTBC2	Vector T-Bar Connector Clip	—
<b>7239</b>	Adjustable Trim Clip	—

\* For use with specialty ceilings with grid offset larger than 3/8"

### VISUAL DETAILS CAD drawings available on armstrongceilings.com/axiom



TechLine / 1 877 276 7876  
armstrongceilings.com/axiom

BPCS-5801-419

LEED® is a registered trademark of the U.S. Green Building Council®  
Declare™ is a service mark of The International Living Future Institute.  
All other trademarks used herein are the property of AWI Licensing LLC  
and/or its affiliates © 2018 AWI Licensing LLC  
Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

493



TRIM & TRANSITIONS

# AXIOM® Wall Moldings & Column Rings

Trim  
straight & curved



Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN™  
High Performance  
Sustainable  
Ceiling Systems

50% RECYCLED ALUMINUM CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LEED	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



This extruded aluminum trim provides crisp-edge detailing compared to conventional roll-formed steel systems.

## KEY SELECTION ATTRIBUTES

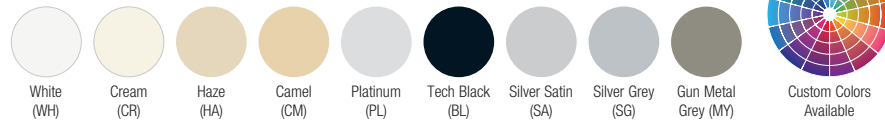
- 5 molding profiles available straight or curved, to be used as wall moldings or column rings
- Axiom® trim is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today – White and 13 Sustain™ colors only (colors found on Pg. 481).
- Compatible with Armstrong® acoustical and drywall suspension systems

### MINIMUM BEND RADIUS

	Wall Moldings (Radius)		Column Rings (Diameter)
	Outside Curve	Inside Curve	Inside Curve
AXMCUR	24"	24"	48"
AXM34CUR	6"	6"	12"
AXM5050CUR	8"	18"	36"
AXM5075CUR	8"	14"	28"
AXM7575CUR	9"	18"	36"

**COLORS** Due to printing limitations, shade may vary from actual product.

### Standard



NOTE: 360° paint finishes and custom colors available as special order

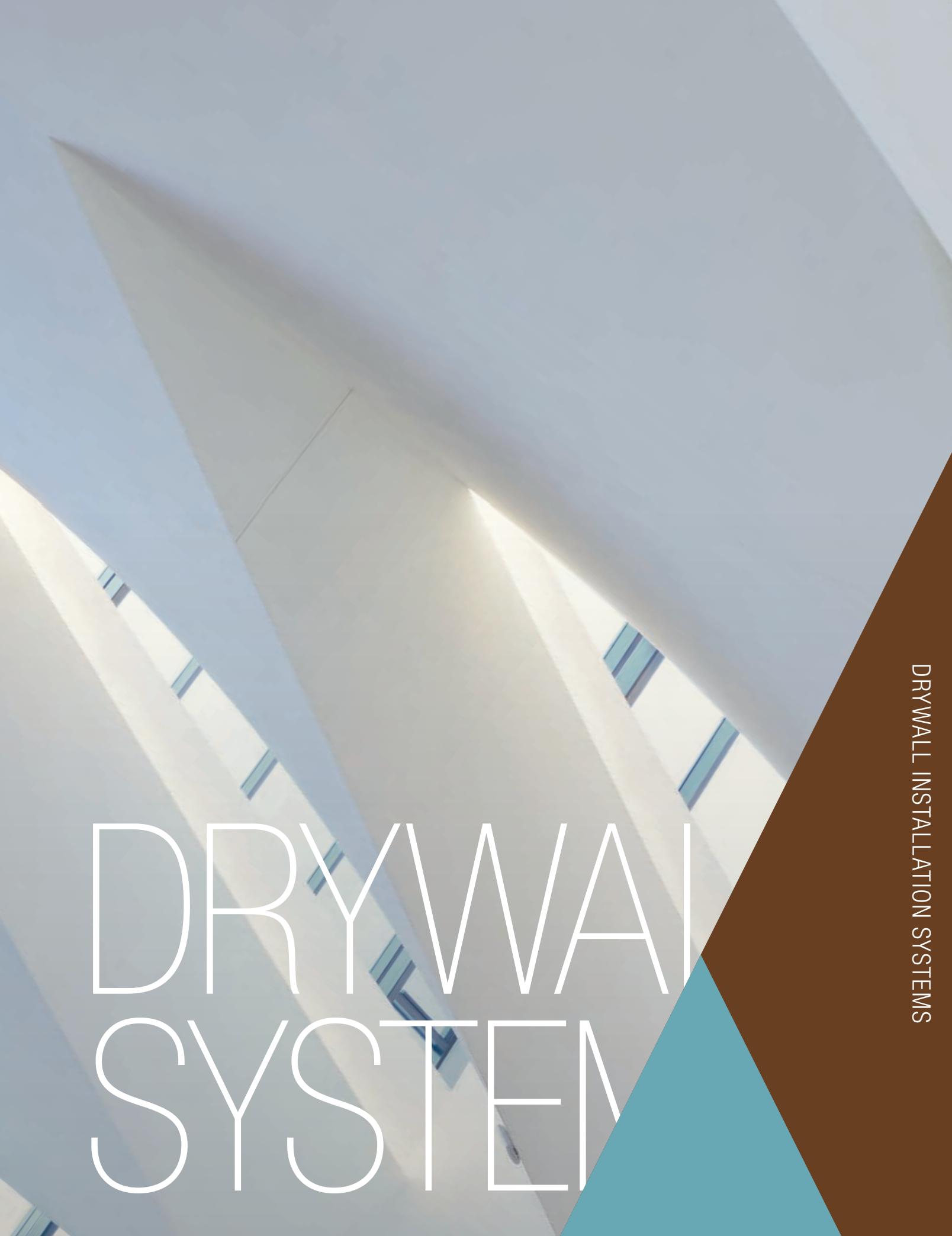
## VISUAL SELECTION

## DETAILS

Item No. ♦	Description	Dimensions Length x A x B
<b>Angle Molding</b>		
AXMSTR _ _ _	Straight Wall Molding - with Axiom Reveal	120" x 1" x 3/4"
AXMCUR _ _ _	Curved Wall Molding/Column Ring with Axiom Reveal	120" x 1" x 3/4"
AXM34STR _ _ _	Straight Wall Molding	120" x 1" x 3/4"
AXM34CUR _ _ _	Curved Wall Molding/Column Ring	120" x 1" x 3/4"
<b>Shadow Molding</b>		
AXM5050STR _ _ _	Straight Wall Molding - Shadow	120" x 3/4" x 5/8" x 1/2" x 1/2"
AXM5050CUR _ _ _	Curved Wall Molding/Column Ring Shadow	120" x 3/4" x 5/8" x 1/2" x 1/2"
AXM5075STR _ _ _	Straight Wall Molding - Shadow	120" x 1" x 3/4" x 1/2" x 3/4"
AXM5075CUR _ _ _	Curved Wall Molding/Column Ring Shadow	120" x 1" x 3/4" x 1/2" x 3/4"
AXM7575STR _ _ _	Straight Wall Molding - Shadow	120" x 3/4" x 5/8" x 3/4" x 3/4"
AXM7575CUR _ _ _	Curved Wall Molding/Column Ring Shadow	120" x 3/4" x 5/8" x 3/4" x 3/4"

♦ Add the 3-letter color suffix to the item number when specifying or ordering (Example: AXMSTR W H), add an extra digit "3" before the color suffix if paint is required inside and outside of trim (Example: AXMSTR 3 H H)

TRIM & TRANSITIONS



# DRYWALL SYSTEM

DRYWALL INSTALLATION SYSTEMS

### DRYWALL SUSPENSION AND FRAMING SYSTEMS



DRYWALL Grid Systems - Flat Ceilings

Pgs. 497-499



DRYWALL Grid Systems - Curved Ceilings

Pgs 497-499



QUIKSTIX™ Drywall Grid System for Soffits

Pg. 500



QUIKSTIX™ Drywall Grid System with Locking Pocket Main Beams

Pg. 501



SHORTSPAN® Drywall Framing System


Pgs. 502-503




#### ICON KEY

Icons are used throughout the catalog to help you quickly identify key product attributes.


#### Humidity/Corrosion Resistance

 Humiguard® Plus recommended for areas subject to high humidity up to, but not including, standing water.

#### Fire Resistance

 Available in fire-resistive options (Fire Guard™); tested in specific UL floor/ceiling or roof/ceiling construction design assemblies.


#### Chemical Corrosion

 G90 hot-dipped galvanized coating available for exterior applications.

#### Seismic

 Category D, E & F

#### Sustainability

 Product is part of Sustain™ Portfolio and meets the most stringent sustainability compliance standards today.

# DRYWALL Grid Systems

## Flat and Curved Ceiling Installation Systems



Drywall Grid System for flat and curved ceilings

Pre-engineered drywall ceiling suspension system that is three times faster to install than traditional track and channel framing.\*

### KEY SELECTION ATTRIBUTES

- Some components available in High Recycled Content (HRC): Total Recycled Content 61%, Post-consumer 53%, Pre-consumer 8%
- Drywall Grid System is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- Non-HRC items have 30% recycled content
- **PeakForm®** profile increases strength and stability for improved performance during installation
- **SuperLock™** main beam clip is engineered for a strong, secure connection and fast, accurate alignment confirmed with an audible click; easy to remove and relocate
- HD8906 (HRC) main beams and cross tees with extra routings for Type F light fixtures
- All drywall components minimum .018" steel thickness; complies with ASTM C645
- Accommodates stud, track, hat channel, wood, or other supplemental framing
- Fire Guard™ components meet broad range of UL design assemblies (XL7936G90 is not fire rated)
- 10-Year Limited System Warranty
- 30-Year Limited Ceiling Systems Warranty
- G90 hot dipped galvanized coating is available for exterior applications

\* Drywall Ceilings Solutions are also addressed on Pg. 440 (Integrated Ceiling Solutions – Common Conditions)

### VISUAL SELECTION

Item No.	Description	Dimensions	Rout Spacing
<b>Drywall Main Beams – Imperial (Red Numbers are Fire Guard Items)**</b>			
<b>HD8906</b> <b>HD8906HRC</b> <b>HD8906G90</b> <b>HD8906HC</b>	1-1/2" 12' HD Drywall Main Beam (For Type F Light Fixtures)	144 x 1-1/2 x 1-11/16"	54 routs – starting 2-1/4" from each end†
<b>HD890610</b>	1-1/2" 10' HD Drywall Main Beam (For Type F Light Fixtures)	120 x 1-1/2 x 1-11/16"	45 routs – starting 2-1/4" from each end†
<b>SP135</b>	1-1/2" 135" HD Stucco Main Beam G90	135 x 1-1/2 x 1-11/16"	13.5" O.C.
<b>Drywall Main Beams – Metric</b>			
<b>HD7940</b>	43mm 3600mm HD Drywall Main Beam	3600 x 38 x 42.8mm	200mm O.C.
<b>7940G</b>	43mm 3600mm HD Drywall Main Beam	3600 x 38 x 35mm	150mm O.C. – starting 75mm from each end†

Item No.	Description	Dimensions	Rout Spacing
<b>Drywall Cross Tees – Imperial (Red Numbers are Fire Guard Items)**</b>			
<b>XL8965</b> <b>XL8965HRC</b>	1-1/2" 6' Drywall Cross Tee	72 x 1-1/2 x 1-1/2"	6 routs – starting 24" from each end†
<b>XL8947P</b>	1-1/2" 50" Drywall Cross Tee	50 x 1-1/2 x 1-1/2"	8 routs – starting 10" from each end†
<b>XL8945P</b> <b>XL8945PHRC</b>	1-1/2" 4' Drywall Cross Tee	48 x 1-1/2 x 1-1/2"	9 routs – center rout and starting 10" from each end†
<b>XL7936G90</b>	1-1/2" 3' Drywall Cross Tee	36 x 1-1/2 x 1-1/2"	none
<b>XL8926</b>	1-1/2" 2' Drywall Cross Tee	24 x 1-1/2 x 1-1/2"	3 routs – center rout and 10" from each end†
<b>Drywall Cross Tees – Metric</b>			
<b>XL7961</b>	38mm 1600mm Drywall Cross Tee (6')	1600 x 38 x 36mm	800mm center of tee
<b>XL7930</b>	38mm 1200mm Drywall Cross Tee (4')	1200 x 38 x 38mm	450mm, 600mm, 750mm
<b>XL7925</b>	38mm 900mm Drywall Cross Tee (3')	900 x 38 x 38mm	none
<b>XL7920</b>	38mm 600mm Drywall Cross Tee (2')	600 x 38 x 38mm	none

\* NOTE: All load test data based on flat installation per ASTM C635.  
 \*\* For fire-rated assemblies, use Type C gypsum board as noted in the UL® fire-rated assembly designs.  
 † Type F fixture compatible

### Hanger Spacing (Lbs./Lin. Ft.)

L/240	L/240	L/240	L/360	L/360	L/360
2 Ft.	3 Ft.	4 Ft.	2 Ft.	3 Ft.	4 Ft.
143.0	57.3	28.14	95.5	43.19	18.66
143.0	57.3	28.14	95.5	43.19	18.66
139.85	52.59	28.71	–	43.19	18.66
<b>600mm</b>	<b>900mm</b>	<b>1200mm</b>	<b>600mm</b>	<b>900mm</b>	<b>1200mm</b>
150.0	68.3	29.34	100.0	45.35	19.56
114.0	51.92	22.40	76.39	34.61	14.93

### Load Total Data (Lbs./Lin. Ft.)

L/240	L/360	L/240	L/360
6.87 @ 6'	4.58 @ 6'		
19.5 @ 50"	12.79 @ 50"		
22.5 @ 4'	14.27 @ 4'		
50.0 @ 3'	31.33 @ 3'		
158.0 @ 2'	90.25 @ 2'		
10.25 @ 6'	6.84 @ 6'	15.15 @ 1600mm	10.18 @ 1600mm
22.4 @ 4'	14.93 @ 4'	33.33 @ 1200mm	22.22 @ 1200mm
51.92 @ 3'	34.61 @ 3'	77.26 @ 900mm	51.51 @ 900mm
114.59 @ 2'	76.39 @ 2'	170.52 @ 600mm	113.68 @ 600mm

ASTM Class  
 HD - Heavy-duty  
 ID - Intermediate-duty  
 LD - Light-duty

# DRYWALL Grid Systems

## Flat Ceilings

**Declare<sup>SM</sup>**  
Living Building  
Challenge Compliant

**SUSTAIN<sup>SM</sup>**  
High Performance  
Sustainable  
Ceiling Systems



UP TO **61%** RECYCLED CONTENT

**LEED<sup>®</sup>**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT

### VISUAL SELECTION

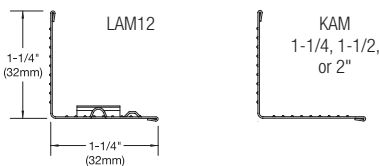
Face Profile	Item No.	Description	Dimensions	Pcs./Ctn.	Lin. Ft./Ctn.
<b>Knurled Angle Molding</b>					
1-1/4"	<b>KAM10</b>	10' Knurled Angle Molding (0.18mil)	120 x 1-1/4 x 1-1/4"	10	100
1-1/4"	<b>KAM12/ KAM12HRC</b>	12' Knurled Angle Molding (0.18mil)	144 x 1-1/4 x 1-1/4"	10	120
1-1/4"	<b>KAM12G90</b>	12' Knurled Angle Molding (0.18mil)	144 x 1-1/4 x 1-1/4"	10	120
1-1/2"	<b>KAM1510</b>	10' Knurled Angle Molding (0.18mil)	120 x 1-1/2 x 1-1/2"	10	100
1-1/2"	<b>KAM1512</b>	12' Knurled Angle Molding (0.18mil)	144 x 1-1/2 x 1-1/2"	10	120
1-1/2"	<b>KAM151020E</b>	10' Knurled Angle Molding (0.28mil)	120 x 1-1/2 x 1-1/2"	10	100
1-1/2"	<b>KAM151020</b>	10' Knurled Angle Molding (0.33mil)	120 x 1-1/2 x 1-1/2"	10	100
1-1/2"	<b>KAM151220E</b>	12' Knurled Angle Molding (0.28mil)	144 x 1-1/2 x 1-1/2"	10	120
2"	<b>KAM21025</b>	10' Knurled Angle Molding (0.18mil)	120 x 2 x 2"	10	100
2"	<b>KAM21020EQ</b>	10' Knurled Angle Molding (0.28mil)	120 x 2 x 2"	10	100
2"	<b>KAM21020</b>	10' Knurled Angle Molding (0.33mil)	120 x 2 x 2"	10	100
3/4"	<b>7838</b>	10' Channel Molding	120 x 1-1/4 x 1-9/16 x 3/4"	20	200
15/16"	<b>7858</b>	12' Reverse Angle Molding	144 x 1-9/16 x 15/16"	20	240
1-1/4"	<b>LAM12/LAM12HRC LAM12G90</b>	12' Locking Angle Molding (Locking Tabs 8" O.C.)	144 x 1-1/4 x 1-1/4"	20	240

### PACKAGING



DRYWALL INSTALLATION SYSTEMS

### DETAILS



For Drywall Linear Lighting capabilities refer to pg.413



Drywall Main Beam, Cross Tee, and Angle Molding

### PHYSICAL DATA

**Material**  
Hot-dipped galvanized steel

**Surface Finish**  
Unpainted steel

**Fire Resistance Rating**  
Resistive when used in applicable UL fire resistive designs. Fire Guard<sup>SM</sup> components meet UL Design Listings D501, D502, G523, G524, G526, G527, G528, G529, G531, G553, G566, G579, L502, L508, L513, L515, L526, L529, L564, P506, P507, P508, P509, P510, P513, P514

**Cross Tee/Main Beam Interface**  
Override

**End Detail**  
Main Beam: Staked-on clip (HD8906, HD8906G90)  
Cross Tee: Staked-on clip

**Seismic Performance**  
ICC Evaluation Service, Inc. ESR-1289

**Complies with IBC requirements.**  
Drywall ceilings are a continuous membrane. Consult local codes for requirements.

#### MAIN BEAMS

HD8906  
HD89906IIC  
HD8906HRC

#### MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION

374.0  
374.0  
374.0

#### CROSS TEES

XL7936G90  
XL8926  
XL8945P  
XL8947P  
XL8965  
XL8965HRC  
XL8945PHRC

#### MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION

377.0

#### ICC Reports

For areas under ICC jurisdiction, see ICC evaluation report number ESR-1289 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The report is subject to reexamination, revisions, and possible cancellation.

#### Warranty

Warranty details available at [armstrongceilings.com](http://armstrongceilings.com)

# DRYWALL Grid Systems

## Curved Ceilings

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems



UP TO 61% RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LEED <sup>®</sup>	energy management	construction waste to reuse	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	bio-based materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------------------	-------------------	-----------------------------	--------------------	------------------------	-----	------------------------------------	---------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



Faceted Drywall Grid System for curved drywall ceilings

Pre-engineered suspension system with notched main beams to simplify curved drywall installations and complicated designs.

### VISUAL SELECTION

### PACKAGING

Face Profile	Item No.	Description	Dimensions (Inches)	Rout Spacing	Load Test Data* (Lbs./Lin. Ft.)		Pcs./ Ctn.	Lin. Ft./ Ctn.
					L/240	L/360		
<b>Faceted Drywall Grid Main Beams</b>								
1-1/2"	<b>HD8906F08</b>	12' Faceted Drywall Main Beam: for creating curved installations	144 x 1-1/2 x 1-11/16"	51 routs – 8" O.C.	18.4 @ 12'	12.3	12	144
1-1/2"	<b>HD8906F16</b>	12' Faceted Drywall Main Beam: for creating curved installations	144 x 1-1/2 x 1-11/16"	51 routs – 16" O.C.	18.4 @ 4'	12.3	12	144
<b>Drywall Grid Cross Tees</b>								
1-1/2"	<b>XL8965</b> <b>XL8965HRC</b>	6' Drywall Cross Tee	72 x 1-1/2 x 1-1/2"	6 routs – starting 24" from each end	6.87 @ 72"	4.58 @ 72"	36	216
1-1/2"	<b>XL8947P</b> <b>XL8947PG90</b>	50" Drywall Cross Tee	50 x 1-1/2 x 1-1/2"	8 routs – starting 10" from each end – for Type F light fixtures	19.5 @ 50"	12.79 @ 50"	36	150
1-1/2"	<b>XL8945P</b> <b>XL8945PHRC</b> <b>XL8945PG90</b>	4' Drywall Cross Tee	48 x 1-1/2 x 1-1/2"	9 routs – center rout and starting 10" from each end – for Type F light fixtures	22.5	14.27	36	144
1-1/2"	<b>XL7936G90</b>	3' Drywall Cross Tee	36 x 1-1/2 x 1-1/2"	None	49.96 @ 3'	31.33 @ 3'	38	108
1-1/2"	<b>XL8926</b> <b>XL8926G90</b>	2' Cross Tee	24 x 1-1/2 x 1-1/2"	3 routs – center rout and 10" from each end	158 @ 2'	90.25 @ 2'	36	78
<b>Accessories</b> (For additional accessories, see pages 504-505.)								
	<b>RC2</b>	Radius Clip					205	
	<b>FZRC2</b>	Radius Clip					50	

\* NOTE: All load test data based on flat installation per ASTM C635.

ASTM Class  
HD - Heavy-duty  
ID - Intermediate-duty  
LD - Light-duty



DRYWALL INSTALLATION SYSTEMS

# QUIKSTIX™

## Drywall Grid System for Soffits

**Declare™**  
Living Building  
Challenge Compliant

**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems



UP TO **61%** RECYCLED CONTENT

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

▲ LOCATION DEPENDENT



QuikStix™ Drywall System for Soffits

A faster, easier, better way to frame drywall soffits; designed to significantly reduce time and labor associated with cutting and measuring.\*

### KEY SELECTION ATTRIBUTES

- Faster, easier, better way to frame Drywall Soffits of all types
  - QuikStix™ is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
  - Knockouts at 6" and 8" centers reduce cutting time
  - Alignment holes make screw installation simple
  - Forms perfect 30°, 45°, 60°, 75° and 90° angles
  - Flattened bulb is offset to allow true angles without interference
  - Bending crimp prevents misalignment
  - 90° angle fits locking angle molding (LAM-12)
- Locking Angle Molding**
- Faster, more accurate solution
  - Pre-engineered locking tabs punched 8" on center:
    - Eliminate measuring 16" or 24"
    - Locking tabs prevent lateral and upward movement
    - Eliminate screws, pop rivets, or crimpers needed to attach tees to molding
  - Knurled surface on both flanges
  - **ScrewStop™** reverse hem prevents screw spin-off and provides safer handling
  - Crimp marks at locking tabs for fast, easy alignment
  - 10-year limited warranty

\* Drywall Soffit installation is also addressed on Pg. 437 (Integrated Ceiling Solutions – Common Conditions)

### VISUAL SELECTION

### MAXIMUM LOAD (LBS./SF)\*

### VISUAL SELECTION

### PACKAGING

Item No.	Dimensions	Lin. Ft./ Bundle	O.C. Spacing	3' Span Lbs./SF	4' Span Lbs./SF	O.C. Knockouts
<b>QuickStix™ for Soffits</b>						
<b>QS612</b> <b>QS612G90</b>	144 x 1-1/2 x 1-1/2"	144	6"	-	4.87	6"
<b>QS812</b> <b>QS812G90</b>	144 x 1-1/2 x 1-1/2"	144	8"	2.80	-	8"
<b>QUIKSTIX™ Locking Pocket Main Beams</b>						
<b>QSLPM12/</b> <b>QSLPM12G90</b>	144 x 1-1/2 x 1-1/2"	144	8"	26.95	14.5	8"

Item No.	Description	Dimensions	Pcs./ Bundle	Lin. Ft./ Bundle
<b>Molding</b>				
<b>LAM12</b> <b>LAM12G90</b> <b>LAM12HRC</b>	12" Locking Angle Molding (Locking tabs 8" O.C.)	144 x 1-1/4 x 1-1/4"	20	240
<b>KAM12</b> <b>KAM12HRC</b>	12" Knurled Angle Molding	144 x 1-1/4 x 1-1/4"	10	120
<b>KAM1510</b>	10" Knurled Angle Molding	120 x 1-1/2 x 1-1/2"	10	100
<b>KAM1512</b>	12" Knurled Angle Molding	144 x 1-1/2 x 1-1/2"	10	120

\* Simple Span L/240



# QUIKSTIX™

## Drywall Grid System

### Locking Pocket Main Beams

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN™  
High Performance  
Sustainable  
Ceiling Systems



UP TO 61% RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie

LEED	energy management	construction waste to right	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
------	-------------------	-----------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



QuikStix™ Drywall Ceiling System

Drywall suspension systems specifically engineered for faster, easier drywall installation...even for drywall spans of up to 7'.

### KEY SELECTION ATTRIBUTES

- QuickStix™ Locking Pocket Main Beams are part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- **ShortSpan® Tees**
  - Some components available in High Recycled Content (HRC); Total Recycled Content 61%, Post-consumer 53%, Pre-consumer 8%
  - Non-HRC items have 30% recycled content
  - 1-1/2" wide face exceeds the minimum industry standard
  - **ScrewStop™** reverse hem prevents screw spin off
  - Balanced profile stays flat during installation
  - Rotary stitching on double web adds strength and stability
  - Deep knurled surface for easy screw insertion
  - G40, .018" metal thickness meets ASTM C645
- **StrongBack™**
  - Easy, pre-engineered solution to support spans over 6 or 7 feet
- **Locking Angle Molding**
  - Pre-engineered locking tabs punched 8" on center:
    - Eliminate measuring 16" or 24"
    - Prevent lateral and upward movement
    - Eliminate screws, pop rivets, or crimpers needed to attach tees to molding
  - Knurled surface on both flanges
  - **ScrewStop** reverse hem prevents screw spin-off and provides safer handling
  - 10-year limited warranty

### VISUAL SELECTION

Face Profile	Item No.	Description	Dimensions
<b>QUIKSTIX Locking Pocket Main Beams (Red Numbers are Fire Guard™ Items)</b>			
1-1/2"	<b>QSLPM12</b> <b>QSLPM12G90</b>	Locking Pocket Main Beam	144 x 1-1/2 x 13/16"
<b>SHORTSPAN® Cross Tees</b>			
1-1/2"	<b>S7708P</b> <b>S7708PG90</b>	ShortSpan Tee	96 x 1-1/2 x 13/16"
1-1/2"	<b>S7710</b> <b>S7710G90</b>	ShortSpan Tee	120 x 1-1/2 x 13/16"
1-1/2"	<b>S7712P</b> <b>S7712PHRC</b> <b>S7712PG90</b>	ShortSpan Tee	144 x 1-1/2 x 13/16"
1-1/2"	<b>S7714P</b> <b>S7714PHRC</b> <b>S7714PG90</b>	ShortSpan Tee	168 x 1-1/2 x 13/16"

\* Simple Span L/240

### MAXIMUM LOAD (LBS./LIN FT)

Lin. Ft./ Bundle	Hanger Spacing Lbs./Lin. Ft.*		Pcs./ Bundle
	3 Ft.	4 Ft.	
144	26.95	14.15	12
96	-	-	12
120	-	-	12
144	-	-	12
168	-	-	12

NOTE: 5/8" drywall weighs 2.4 lbs./SF  
1/2" drywall weighs 2.0 lbs./SF  
1/2" lite drywall weighs 1.3-1.4 lbs./SF

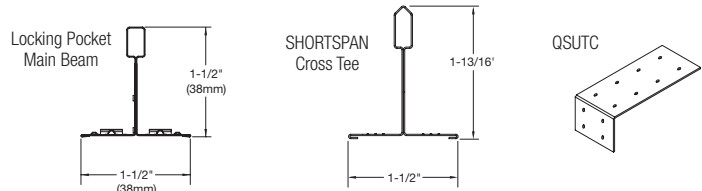
### ACCESSORIES

Item No.	Description	Pcs./Ctn.
<b>QSUTC</b>	QuickStix Uptight Clip	150

For Molding and Knurled Angle Molding, see pages 469-471.

### DETAILS

For more information, see submittal BPCS-3639.



# SHORTSPAN®

## Drywall Framing System



ShortSpan® Drywall Framing System

The fastest and easiest way to frame flat drywall ceilings up to 17' wide.\*

### KEY SELECTION ATTRIBUTES

- ShortSpan® is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- **ShortSpan® Cross Tees**
  - Eliminates hanger wires for spans up to 8'-6"
  - Easy, pre-engineered solution to support spans up to 8'-6" with no mid-span supports
  - **PeakForm®** profile increases strength and stability
  - Select items available in High Recycled Content (HRC) (S7712, S7714)
- **ScrewStop™** reverse hem prevents screw spin-off
- Balanced profile stays flat during installation
- Rotary stitching on double web adds strength and stability
- G40, .018" metal thickness meets ASTM C645

### Locking Angle Molding

- Pre-engineered locking tabs punched 8" on center:
  - Eliminate measuring 16" or 24" O.C.
  - Locking tabs prevent lateral and upward movement
  - Eliminate screws, pop rivets, or crimpers needed to attach cross tees to molding
- Knurled surface on both flanges
- **ScrewStop** reverse hem prevents screw spin-off and provides safer handling
- Crimp marks at locking tabs for fast, easy alignment
- 10-year limited warranty

\* Corridor Installation Solutions are also addressed on Pg. 442 (Integrated Ceiling Solutions – Common Conditions)

### VISUAL SELECTION

Item No.	Description	Dimensions
<b>SHORTSPAN® Cross Tees (Red Numbers are Fire Guard™ Items)</b>		
<b>S7708P</b> <b>S7708PG90</b>	8' ShortSpan Cross Tee	96 x 1-1/2 x 1-13/16"
<b>S7710P</b> <b>S7710PG90</b>	10' ShortSpan Cross Tee	120 x 1-1/2 x 1-13/16"
<b>S7712P</b> <b>S7712PHRC</b> <b>S7712PG90</b>	12' ShortSpan Cross Tee	144 x 1-1/2 x 1-13/16"
<b>S7714P</b> <b>S7714PHRC</b> <b>S7714G90</b>	14' ShortSpan Cross Tee	168 x 1-1/2 x 1-13/16"
<b>QUIKSTIX™ Locking Pocket Main Beams</b>		
<b>QSLPM12</b> <b>QSLPM12G90</b>	Locking Pocket Main Beam	144 x 1-1/2 x 1-1/2"
<b>StrongBack™ Support Hanger</b>		
<b>SB12P</b> <b>SB12PG90</b>	StrongBack	144" x 2"
<b>Wall Moldings</b>		
<b>LAM12</b> <b>LAM12HRC</b>	12' Locking Angle Molding (Locking tabs 8" O.C.)	144 x 1-1-1/4 x 1-1-1/4"
<b>KAM10</b>	Knurled angle molding – 25-gauge (.018" metal thickness)	120 x 1-1/4 x 1-1/4"
<b>KAM12</b> <b>KAM12G90</b> <b>KAM12HRC</b>	Knurled angle molding – 25-gauge (.018" metal thickness)	144 x 1-1/4 x 1-1/4"
<b>KAM1510</b>	Knurled angle molding – 25-gauge (.018" metal thickness)	120 x 1-1/2 x 1-1/2"
<b>KAM1512</b>	Knurled angle molding – 25-gauge (.018" metal thickness)	144 x 1-1/2 x 1-1/2"
<b>KAM151020EQ</b>	Knurled angle molding – 22-gauge (.028" metal thickness)	144 x 1-1/2 x 1-1/2"
<b>KAM151020</b>	Knurled angle molding – 20-gauge (.033" metal thickness)	144 x 1-1/2 x 1-1/2"
<b>KAM151220EQ</b>	Knurled angle molding – 22-gauge (.028" metal thickness)	144 x 1-1/2 x 1-1/2"
<b>KAM21025</b>	Knurled angle molding – 25-gauge (.018" metal thickness)	144 x 2 x 2"
<b>KAM1520G90</b>	Knurled angle molding – 22-gauge (.018" metal thickness)	120 x 1-1/2 x 1-1/2"
<b>KAM1525G90</b>	Knurled angle molding – 25-gauge (.018" metal thickness)	120 x 1-1/2 x 1-1/2"
<b>KAM21020EQ</b>	Knurled angle molding – 22-gauge (.028" metal thickness)	120 x 2 x 2"
<b>KAM1525G90</b>	Knurled angle molding – 25-gauge (.018" metal thickness)	120 x 1-1/2 x 1-1/2"
<b>KAM21020</b>	Knurled angle molding – 20-gauge (.033" metal thickness)	120 x 2 x 2"

### PERFORMANCE

Performance (Fire Guard™ Only)	Packaging Pcs./ Bundle	Lin. Ft./ Bundle
•	12	96
•	12	120
•	12	144
•	12	168
–	12	144
–	12	144
–	20	240
–	10	100
–	10	120
–	10	100
–	10	100
–	10	120
–	10	100
–	10	100
–	10	100
–	10	100
–	10	100
–	10	100

Performance (Fire Guard™ Only)



Dots represent high level of performance.

### FIRE RESISTANCE RATING

Meets a broad range of UL design assemblies D501, D502, G523, G524, G527, G528, G529, G531, G553, J502, L502, L508, L513, L515, L525, L526, L529, L564, P501, P506, P507, P508, P509, P510, P513, P514.



# SHORTSPAN® Drywall Framing System

Declare<sup>SM</sup>  
Living Building  
Challenge Compliant

SUSTAIN<sup>SM</sup>  
High Performance  
Sustainable  
Ceiling Systems

UP TO 61% RECYCLED CONTENT

LEED<sup>®</sup>

- energy management
- construction waste to reuse
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- low based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

## MAXIMUM LOAD TEST DATA IN LBS./SF - L/240 (Red numbers are FireGuard™ items)

Item No. ♦	OC Spacing	4' Span Lbs./SF	5' Span Lbs./SF	6' Span Lbs./SF	7' Span Lbs./SF	7'-6" Span Lbs./SF	8' Span Lbs./SF	8'-6" Span Lbs./SF	(10'-14' spans require a mid-span support)		
									10' Span Lbs./SF	12' Span Lbs./SF	14' Span Lbs./SF
S77__P	16"	23.82	10.64	7.87	4.38	4.16	3.32	2.53*	10.64	7.76	4.38
S77__P	24"	15.88	7.09	5.25	2.92	2.77*	2.22	1.69	7.09	5.17	2.92

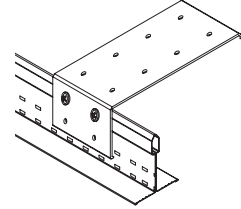
\* Maximum load for 16"/24"  
♦ Enter appropriate cross tee length 8", 10", 12" or 16" (Example: S7708P)

## LOAD TEST DATA

ShortSpan® Cross Tees	Web Height	Hanger Spacing Uniform Load at L/240 (Lbs/LF)								
		3'	4'	5'	6'	7'	7'-6"	8'	8'-6"	
S77__P	1-13/16"	-	31.76	14.18	10.49	5.84	5.54	4.43	3.37	
QuikStix™ Locking Pocket Main										
QSLPM12	1-1/2"	40.60	21.64	-	-	-	-	-	-	
StrongBack™ Support Hanger		Hanger Spacing Uniform Load at L/360 (Lbs/LF)								
SB12P	2"	27.53	17.76	-	-	-	-	-	-	

## ACCESSORIES

QSUTC – QuikStix Uptight Clip – Saves time in tight plenum areas and is adjustable to uneven surfaces.  
QSUTC – 100 pcs  
FZQSUTC – 50 pcs



## INSTALLATION NOTES

1. Must screw LAM12 and KAM12 to wall structure using #8 x 1-1/4" wafer head self-drill sheet metal screws tested in 25- and 20- gauge steel studs
2. ShortSpan Tees must be cut within 1/8" of the vertical leg of the LAM and QSLPM
3. Slide StrongBack support hanger over the bulb of ShortSpan tee and engage by bending locking tabs back to original position
4. Support and level system to structure; attach vertical supports to StrongBack support hanger as required
5. The ShortSpan system was installed per these installation notes to produce the load data provided in the chart above

NOTE: For fire resistant installations, refer to UL Directory and Designs for details

### ShortSpan Vertical Support Requirements

Tees installed 16" on center with 5/8" or 1/2" drywall (Seismic Design Categories A, B, C, D, E, F)

Up to 8'-6" span	No vertical support required
8'-6" to 14' span	Mid-span vertical support required

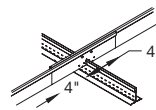
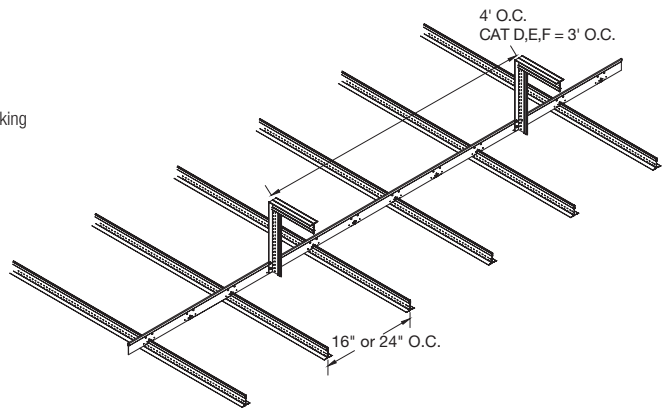
Tees installed 24" on-center with 5/8" drywall (Seismic Design Categories A, B, C, D, E, F)

Up to 7'-6" span	No vertical support required
7'-6" to 14' span	Mid-span vertical support required

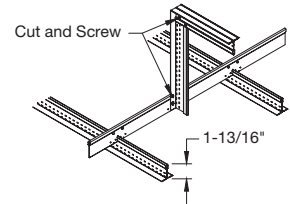
### No Additional Screws Requirements For Seismic Areas



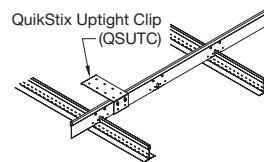
There's no need to screw ShortSpan Tees to Locking Angle Molding in Seismic Design Categories A-F (unless required by local code).



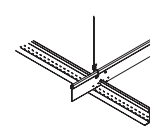
StrongBack Overlap Splice



300 lbs. pullout strength on the StrongBack connection to ShortSpan Tee Bulb

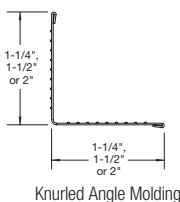
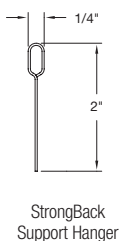
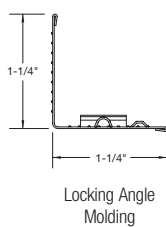
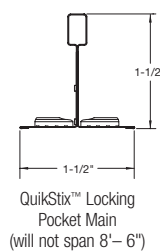
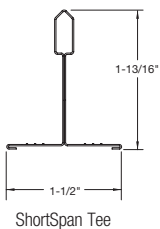


StrongBack support hanger attached to structure using the QuikStix™ Uptight Clip



StrongBack support hanger attached to structure using hanging wire

## DETAILS



## PHYSICAL DATA

**Material**  
Hot-dipped galvanized steel

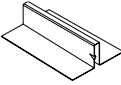
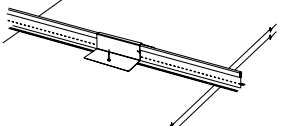
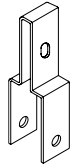
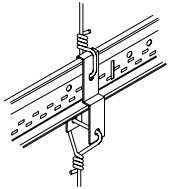
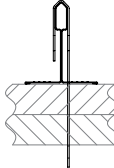
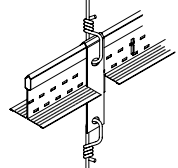

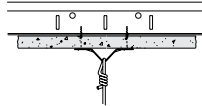
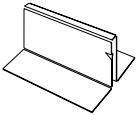
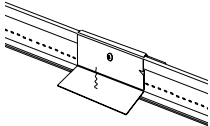
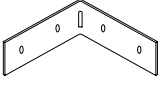
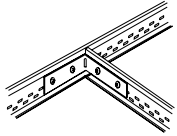
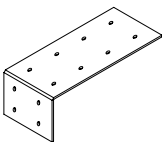
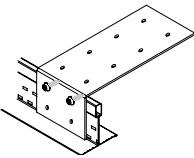
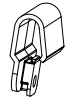
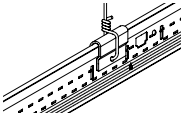
**Surface Finish**  
Unpainted steel

**Face Dimension**  
1-1/2" T-bar section

**Fire Resistance**  
Resistive when used in applicable UL fire resistive designs D501, D502, G523, G524, G526, G527, G528, G529, G531, G553, J502, L502, L508, L513, L515, L525, L526, L529, L564, P501, P506, P507, P508, P509, P510, P513, P514. (QSUTC, QSLPM12 are not fire-rated.)

# DRYWALL INSTALLATION SYSTEMS – Accessories

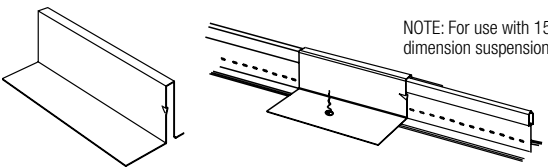
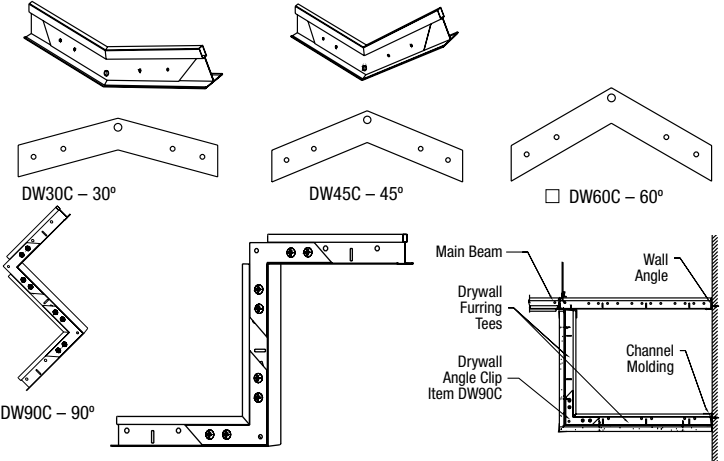
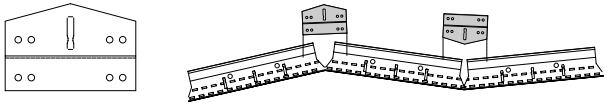
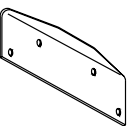
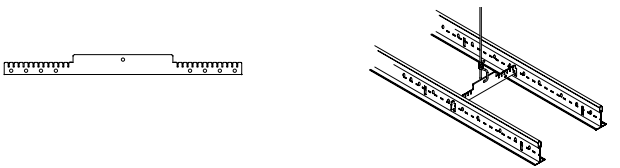
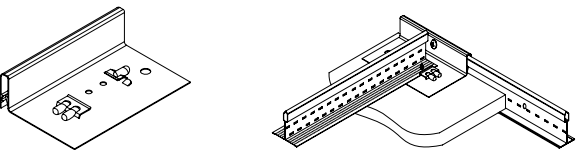
## VISUAL SELECTION

Item No.	Description		
<b>EHDC50</b> (for 1/2" ceiling panels and drywall) <b>EHDC58</b> (for 5/8" ceiling panels and drywall) <b>EHDC75</b> (for 3/4" ceiling panels and drywall) 125 pcs  <b>FZEHDC50</b> (for 1/2" ceiling panels and drywall) <b>FZEHDC58</b> (for 5/8" ceiling panels and drywall) <b>FZEHDC75</b> (for 3/4" ceiling panels and drywall) 50 pcs	External Hold-Down Clip locks under bulb of grid section to prevent upward movement and provide secure attachment surface. Keeps acoustical and drywall ceiling components in place during wind uplift and in high security areas.	 	
<b>DLCC</b> 250 pcs  <b>FZDLCC</b> 50 pcs	DLCC – Direct Load Ceiling Clip is used to hang suspension system below existing 15/16" grid face, transferring weight directly to hanger wire; may be used to preserve the fire rating of an existing ceiling, and to support heavy accessories.	 	
<b>DDC</b> 250 pcs  <b>FZDDC</b> 50 pcs	DDC – Double Drywall Clip is used to hang suspension system below existing 1-1/2" grid face, transferring weight directly to hanger wire; may be used to preserve the fire rating of an existing ceiling, and to support heavy accessories; allows for double layer of 5/8" gypsum board.	 	
<b>DWC</b> 250 pcs	DWC – Drywall Clip allows for a "second" ceiling to be installed below a drywall ceiling; attaches through installed drywall to supporting structure.	 	
<b>MBAC</b> 70 pcs  <b>FZMBAC</b> 50 pcs	MBAC – Main Beam Adapter Clip attaches to web of suspension system section; provides larger surface for screw attachments; used as a hold-down clip for thin material (metal or plastic lay-in panels); fastens drywall track to underside of exposed suspension system with lay-in panels, leaving suspension system face free of screw holes.	 	
<b>XTAC</b> 100 pcs  <b>FZXTAC</b> 50 pcs	XTAC – Cross Tee Adapter Clip is used to attach field-cut cross tees to main beams.	 	
<b>QSUTC</b> 150 pcs  <b>FZQSUTC</b> 50 pcs	QSUTC – QuikStix™ Upright Clip saves time in tight plenum areas and is adjustable to uneven surfaces.	 	
<b>IIC</b> 36 pcs	IIC – Impact Isolation Clip for use with HD8906IIC drywall grid main beam. Provides up to 8 points of IIC improvement to ensure your project meets IBC requirements.  <b>IIC Clip must be used with HD8906IIC Drywall Grid Main Beam</b>	 	

DRYWALL INSTALLATION SYSTEMS ACCESSORIES

# DRYWALL INSTALLATION SYSTEMS – Accessories

## VISUAL SELECTION

Item No.	Description	
<b>DWACS</b> 100 pcs  <b>FZDWACS</b> 50 pcs	DWACS – Drywall Attachment Clip – Facilitates transition from drywall to acoustical ceiling; locks under bulb of grid section to prevent upward movement and provide secure attachment surface on one side of exposed grid.	 <p>NOTE: For use with 15/16" face dimension suspension system.</p>
<b>DW30C</b> – 30° <b>DW45C</b> – 45° <b>DW60C</b> – 60° <b>DW90C</b> – 90° 250 pcs	Drywall Angle Clip – Used to create positive and secure angles for drywall and ceiling installations on either main beams or cross tees; attachment to be made with 7/16" pan head screw.	 <p>DW30C – 30°      DW45C – 45°      □ DW60C – 60°</p> <p>DW90C – 90°</p> <p>Main Beam, Wall Angle, Drywall Furring Tees, Drywall, Channel Molding, Drywall Angle Clip Item DW90C</p>
<b>RC2</b> 205 pcs  <b>FZRC2</b> 50 pcs	RC2 – Radius Clip is used for drywall applications which form curved installations; attaches to the cavity side of web of the main beam with four 7/16" pan head screws. Install at all knockout locations.	
<b>RC1</b> 200 pcs  <b>FZRC1</b> 50 pcs	RC1 – Splice Clip is used as a main beam splice or partition top trim splice.	
<b>GSC9</b> (2-1/2" to 8-1/2") <b>GSC12</b> (5-1/2" to 11-1/2") <b>GSC16</b> (9-1/2" to 15-1/2") 100 pcs	Adjustable Grid Spacer Clip – Used to space two parallel main beams for light fixtures, air diffusers, etc.; allows for 1/4" adjustments with three different clips.	
<b>FZGSC9</b> (2-1/2" to 8-1/2") <b>FZGSC12</b> (5-1/2" to 11-1/2") <b>FZGSC16</b> (9-1/2" to 15-1/2") 50 pcs		
<b>Locking</b> <b>DW58LT</b> – 5/8" Gypsum <b>DW50LT</b> – 1/2" Gypsum 125 pcs  <b>FZDW58LT</b> – 5/8" Gypsum <b>FZDW50LT</b> – 1/2" Gypsum 50 pcs	Drywall Transition Clip with Locking Tabs – Facilitates transition from drywall to acoustical ceiling; one-sided hold-down clip; eliminates need for drywall bead. Locking tabs provide secure location for DGS cross tees.	
<b>Non-locking</b> <b>DW58AG</b> – 5/8" Gypsum <b>DW50AG</b> – 1/2" Gypsum 125 pcs		



## You Can Use Acoustical Walls to Enhance Design and Acoustical Performance

Acoustical absorption is important to:

- Reduce noise levels and reverberation time
- Enhance speech intelligibility

Acoustical wall treatments offer an additional option to further reduce noise. Measures for walls are stated in STC and NRC values. Adding wall treatments to an acoustical ceiling can improve reverberation time by 87%. See example below.

### STC (Sound Transmission Class)

A measure for rating the performance of a wall system as a barrier to airborne sound transmission between adjacent closed spaces such as offices.

A wall system with an STC < 35 is considered low performance, whereas one with an STC > 50 is considered high performance. STC is the wall equivalent of CAC. STC is measured according to ASTM E90.



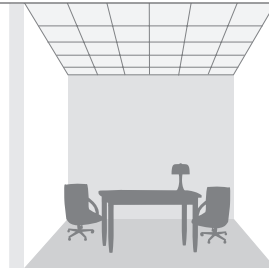
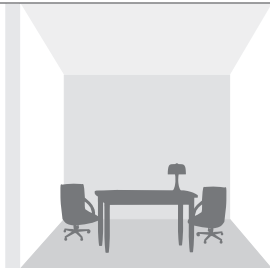
### NRC (Noise Reduction Coefficient)

A measure for rating the overall sound absorption of a material when used in an enclosed architectural space such as an office, where sound is reflected at many angles of incidence.

A wall system with an NRC < 0.50 is considered low performance, whereas one with NRC > 0.70 is considered high performance.



### Example:



320 SF Closed Conference Room (20' x 16'), 10' ceiling height, drywall, vinyl floor

	No Treatment (Drywall Ceiling)	Acoustical Ceiling (Ultima® 0.70/35)	Acoustical Ceiling (Ultima 0.70/35) and two Soundsoak® 60 Walls
<b>NRC</b>	0.10	0.70	0.70 (Ceiling and Wall Treatments)
<b>Shared Wall STC</b>	35	35	45
<b>Reverberation Time</b>	2.3 sec	0.5 sec	0.3 sec
<b>RT Improvement</b>	ref	78%	87%
<b>SPL Reduction</b>	ref	-4.8 dB	-7.5 dB

For definitions of acoustical terms, see Pgs. 546-547 in this catalog.

# WALLS

WALLS

# WALLS

## At-a-Glance

Product information listed pertains to product families, may not apply to individual items. Consult product details at [armstrongceilings.com/commercial](http://armstrongceilings.com/commercial) before specifying/purchasing.

### TECTUM® WOOD FIBER – WALLS – STANDARD & CUSTOM



**TECTUM®** Pgs. 512-513  
Direct-Attach Wall Panels



**TECTUM® Finalé™** Pg. 514  
Wall Panels



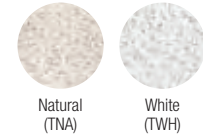
**TECTUM® Fabric** Pg. 515  
Wall Panels



**TECTUM® Panel Art** Pg. 516  
Wall Panels



#### Standard Colors



Custom Colors Available

### SOUNSOAK FABRIC WALLS – STANDARD & CUSTOM



**SOUNSOAK®** Pgs. 517-518  
Standard



#### Standard Fabrics – FR-701® (FR)

Fabrics are dye-lotted and should be segregated by dye lot. Do not mix.

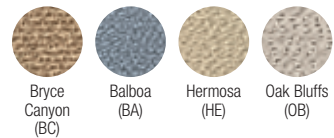


#### Composed Fabric Surface – Rhythms® (RH)

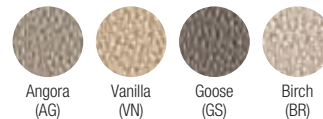


#### Woven Fabric Surface – Lido™ (LD)

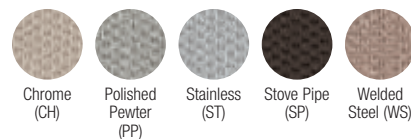
Fabrics are dye-lotted and should be segregated by dye lot. Do not mix.



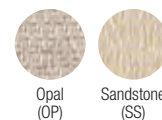
#### Anchorage™ (AN)



#### Metallation™ (MT)

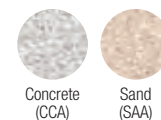


#### Spinel™ (SP)



#### Vinyl Surface – Signature (SV)

Mineral Fiber Substrate only



**SOUNSOAK® Custom** Pg. 518



#### Custom Fabrics & Sizes – You select it, we'll make it!

Choose a standard fabric or select your own.

We'll create your walls.



Custom Fabrics Available

[armstrongceilings.com/customsoundsoak](http://armstrongceilings.com/customsoundsoak)

NOTE: Standard SoundSoak® panel item numbers include references to size, fabric, and substrate. Consult your price list or contact TechLine for assistance with identifying item numbers.



TEXTURED SCRIM WALLS – STANDARD

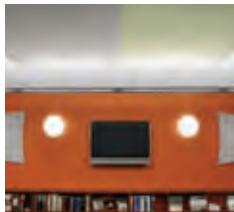


Standard Color



White (WH)

OPTIMA™  
PAINTED NUBBY™ Wall Panels Pg. 519



Standard Colors



White (WH)



Shell (SH)



Pale Lemon (LM)



Pecan (PC)



Sky (SK)



Moss (MS)



Stone (SE)



Reef (RE)



Lagoon (LA)



Plum (PM)



Cranberry (CN)



Kiwi (KW)



Tangerine (TG)



Black (BK)

SOUNDSCAPES™  
Shapes Walls Pg. 519



ICON KEY

Icons are used throughout the catalog to help you quickly identify key product with high level of performance.

High Acoustics

Acoustical options available.



Product has NRC (Noise Reduction Coefficient) 0.70 or greater.

Fire Performance

Class A

High Durability

Washability

Offers superior wash resistance without compromising panel finish integrity, using a washability tester as per ASTM D4828.

Scrubability

Product is scrubable. See specific info on product page.

Impact Resistance

Excellent resistance to surface impact as per Falling Ball Test.

Scratch Resistance

Excellent resistance to surface scratching, scuffing, or chipping as per Hess Rake Test.

Soil Resistance

Excellent resistance to dirt and/or grease for lasting value and performance.

Color Availability

Available in color.

Recycle Program

Product is recyclable through the Armstrong Recycling Program

Sustainability

Product is part of Sustain® Portfolio and meets the most stringent sustainability compliance standards today – 1" panels in White and Natural only.

METAL WALLS – CUSTOM



Custom Metal Walls Pg. 530



Standard Colors – Metal



White (WH)



Silver Grey (SG)



Gun Metal Grey (MY)

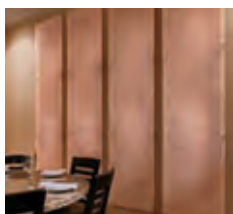


Custom Colors Available

TRANSLUCENT PARTITIONS AND WALLS – STANDARD



INFUSIONS™ Partitions Pg. 526



INFUSIONS™ Walls Pg. 527



Standard Colors – Solids (partial list) (See pages 460 for full color offering.)



Refined Kiwi (TRK)



Refined Reef (TRR)



Refined Lagoon (TRL)



Refined Plum (TRP)



Refined Tangerine (TRT)



Refined Black (TRB)

Patterns



Spun Copper (TSC)



Crushed Copper (TCC)

# WALLS

## At-a-Glance

### WOOD WALLS – STANDARD & CUSTOM



WOODWORKS® Standard Walls Pgs. 520-521



WOODWORKS® Channeled Walls Pgs. 522-523



WOODWORKS® Ekos® Wall System Pgs. 524-525



#### Standard Finishes – Natural Variations™



#### Constants™



#### Bamboo

#### Ekos

#### Channeled



WOODWORKS® Custom Walls Pg. 531



WOODWORKS® Channeled Custom Walls Pg. 531



WOODWORKS® Grille Custom Walls  
armstrongceilings.com



#### Custom Finishes (partial list)



### WOODWORKS CEILING-TO-WALL TRANSITIONS



WOODWORKS® Channeled Wall Planks Pgs. 522-523



WOODWORKS® Grille Wall-to-Ceiling Pgs. 238-239



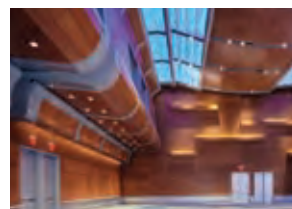
WOODWORKS® Linear Planks Wall-to-Ceiling Pgs. 248-249



WOODWORKS® Custom Walls Pg. 531



WOODWORKS® Custom Walls Pg. 531



WOODWORKS® Custom Walls Pg. 531



WALLS

# WALLS

## At-a-Glance

### RECOMMENDED AREAS OF USE

Dots represent high level of performance.

Product	Substrate	Panel Thickness	Finish	NRC Rating				STC Rating		Conf. Rooms	Private Offices	Classrooms	Corridors	Cafetorium	Music Rooms	Patient Rooms
				A Mounting	D-20 Mounting	C-20 Mounting	C-40 Mounting	1 Side	2 Sides							
				NRC	NRC	NRC	NRC	STC	STC							
Tectum® Direct-Attach Pgs. 512-513	Wood Fiber Cementitious Fabric	1"	–	0.40	0.45	0.80	0.85	–	–	–	–	–	•	•	•	–
		1-1/2"	–	0.55	0.60	0.90	0.95	–	–	–	–	–	•	•	•	–
		2"	–	0.60	0.70	0.95	1.00	–	–	–	–	–	•	•	•	–
Tectum® Finalé™ Pg. 514	Wood Fiber Cementitious Fabric	1"	–	0.85	–	–	–	–	–	–	–	–	•	•	•	–
		1-1/2"	–	0.90	–	–	–	–	–	–	–	–	•	•	•	–
		2"	–	1.00	–	–	–	–	–	–	–	–	•	•	•	–
Tectum® Fabric Walls Pg. 515	Wood Fiber Cementitious Fabric	1"	–	0.50	0.60	0.90	0.85	–	–	–	–	–	•	•	•	–
Tectum® Panel® Art Pg. 516	Wood Fiber Cementitious Fabric	1"	–	0.40	0.45	0.80	0.85	–	–	–	–	–	•	•	•	–
		1-1/2"	–	0.55	0.60	0.90	0.95	–	–	–	–	–	•	•	•	–
		2"	–	0.60	0.70	0.95	1.00	–	–	–	–	–	•	•	•	–
Soundsoak® 60 Pgs. 517-518	Mineral Fiber	Woven Fabric Composed Fabric		0.65	0.70	–	–	43	45	•	•	•	•	•	•	•
Soundsoak® 85 Pgs. 517-518	Fiberglass	Woven Fabric Composed Fabric		0.80	0.90	–	–	–	–	•	•	•	–	•	•	•
Soundsoak® Custom 1" Pgs. 517-518	1" Fiberglass	Woven Fabric		0.80	0.80	–	–	–	–	•	•	•	–	•	•	•
Soundsoak® Custom 2" Pgs. 517-518	2" Fiberglass	Woven Fabric		1.05	1.10	–	–	–	–	•	•	•	–	•	•	•
Optima™ Pg. 519	Fiberglass	DuraBrite™ Finish		0.80	0.90	–	–	–	–	•	•	–	–	•	•	•
Painted Nubby™ Pg. 519	Fiberglass	Woven Cloth		0.70	0.80	–	–	–	–	•	•	–	–	–	–	–
SoundScapes™ Shapes Pg. 519	Fiberglass	Scrim Finish		0.80	0.90	–	–	–	–	•	–	•	–	•	•	–
Custom Metal Pg. 530	Metal	Smooth Metal		Varies	Varies	–	–	–	–	•	•	•	•	•	•	•
WoodWorks® Standard & Custom Pgs. 520-521, 531	Wood	Smooth or Perforated Wood Veneer		0.45-0.80†	0.45-0.80†	–	–	–	–	•	•	•	•	•	•	•
WoodWorks® Ekos® Pgs. 524-525	Wood	Smooth or Perforated Wood Veneer		0.45	–	–	0.50	43	45	•	•	–	–	–	–	–

† With 1" fiberglass infill and fleece

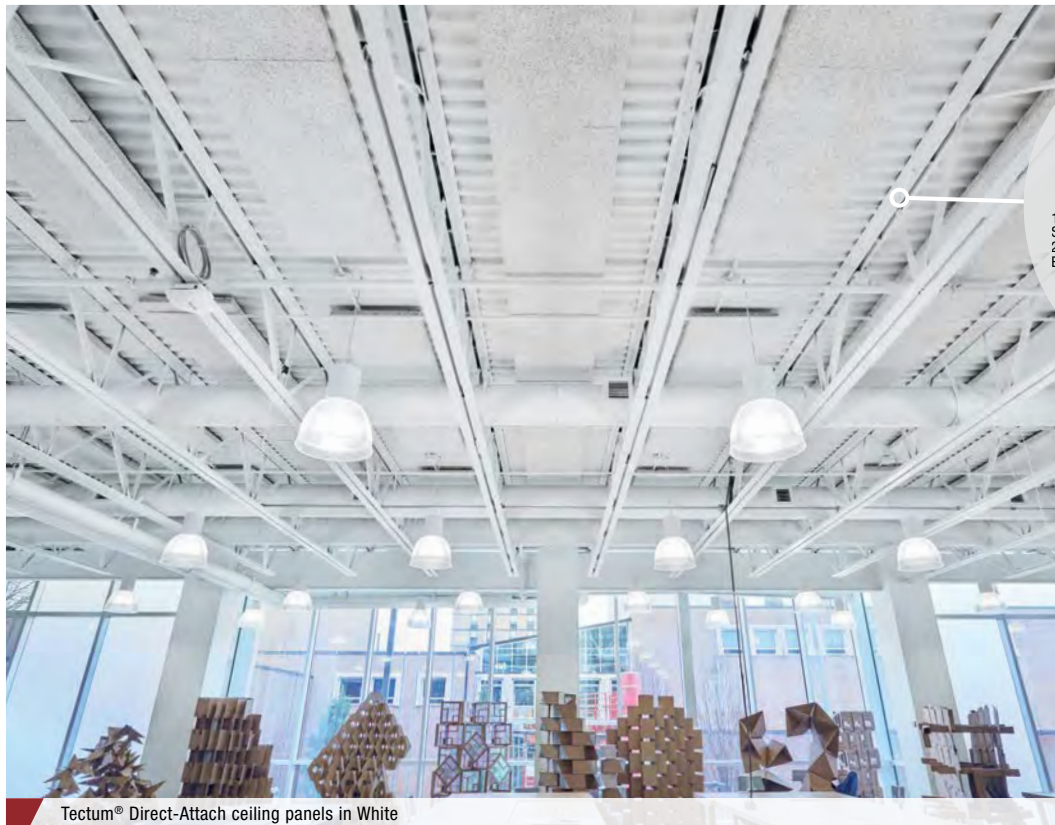
# TECTUM® Direct-Attach

Ceiling & Wall Panels  
coarse texture

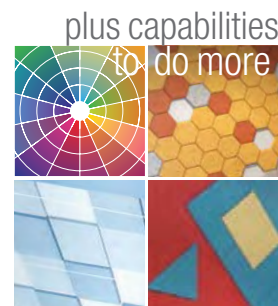
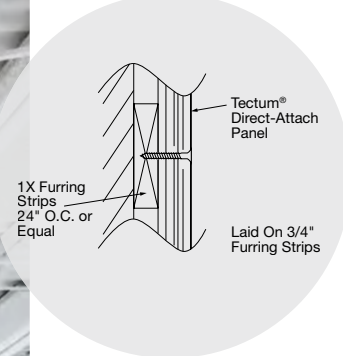


**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems

CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



Tectum® Direct-Attach ceiling panels in White



[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

Tectum® Direct-Attach ceiling and wall panels provide durable, sustainable, acoustical options for a wide variety of applications.

## KEY SELECTION ATTRIBUTES



• Now you can install 1" thick Tectum® on Trusses and I-Beams for added acoustics while maintaining an exposed structure visual on the deck



• Tectum panels are Living Product Imperative Certified by the International Living Future Institute – 1" panels in White and Natural only  
• Tectum panels are part of the Sustain® portfolio and meet the most stringent sustainability compliance standards today – 1" panels in White and Natural only

- Now, long edges beveled, short edges beveled available as a standard option
- Great retrofit solution for noise reduction
- Excellent noise absorption – NRC up to 0.85 (1" panel, C-40 Mounting)
- Can be field painted up to 6 times without impacting acoustic or fire performance
- Variety of made-to-order color options available

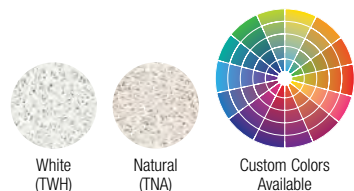
- Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, trusses, I-Beams, and more

## TYPICAL APPLICATIONS

- Gymsnasiums
- Auditoriums
- Multi-purpose Spaces
- Exposed Structures
- Acoustical Retrofits
- Education Spaces
- Covered Exterior Applications\* (1-1/2" and 2" thick panels only)
- Indoor Swimming Pools\* (1-1/2" and 2" thick panels only)

\* Must maintain 1" air gap behind panel

**COLORS** Due to printing limitations, shade may vary from actual product.



## DETAILS

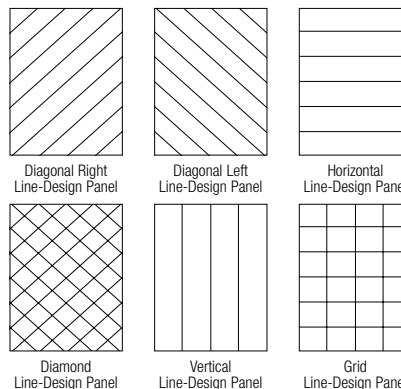


1. Tectum® Direct-Attach Panel in White
2. Tectum® Direct-Attach Panels in White

NOTE: Standard panel edges are unfinished. Painted panel edges available through special order. Custom color panel edges are fully painted.

## LINE DESIGN CAPABILITIES

Max panel size for line designs is 2' x 4'. Custom line designs available. Contact Architectural Specialties for more information.



# TECTUM® Direct-Attach

## Ceiling & Wall Panels

### coarse texture



Declare™  
Third Party Verified  
Living Product  
Imperative  
Certified



**SUSTAIN™**  
High Performance  
Sustainable  
Ceiling Systems



The mark of responsible forestry

For LEED contribution visit  
armstrongceilings.com/greengenie



### VISUAL SELECTION

Edge Profile	Item No. ◆	Dimensions Nominal W x L x H (Inches)
<b>TECTUM® Direct-Attach Ceiling &amp; Wall Panels (FSC® Certified)</b>		
Long Edges Beveled/Short Edges Square	<b>8182T10</b> ___	23-3/4 x 48 x 1"
	<b>8181T10</b> ___	23-3/4 x 96 x 1"
	<b>8180T10</b> ___	47-3/4 x 96 x 1"
Long Edges Beveled/Short Edges Beveled*	<b>8175T10</b> ___	23-3/4 x 48 x 1"
	<b>8174T10</b> ___	23-3/4 x 96 x 1"
	<b>8173T10</b> ___	47-3/4 x 96 x 1"
<b>Other Size Panels</b>		W 23-3/4" – 48" L: 12" – 144" 1", 1-1/2", or 2" thickness

◆ When specifying or ordering, include the appropriate 3-digit color suffix TNA = Natural TWH = White (e.g. 8182T10 I W H)  
\* NOTE: Four-sided beveled edge panels are recommended in adjoining panel installations.

### PERFORMANCE SELECTION

Dots represent high level of performance.

Fire Rating	Light Reflect (White Only)	Mold & Mildew Protection BioBlock	Sag Resist Humi-Guard+	Certified Low VOC Emissions	Impact Durability	Scratch	30-Yr Warranty
Class A	Up to 0.75	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•
Class A	Up to 0.75	•	•	•	•	•	•
Class A	Up to 0.75	–	–	–	•	•	•

### ACOUSTICAL INFORMATION

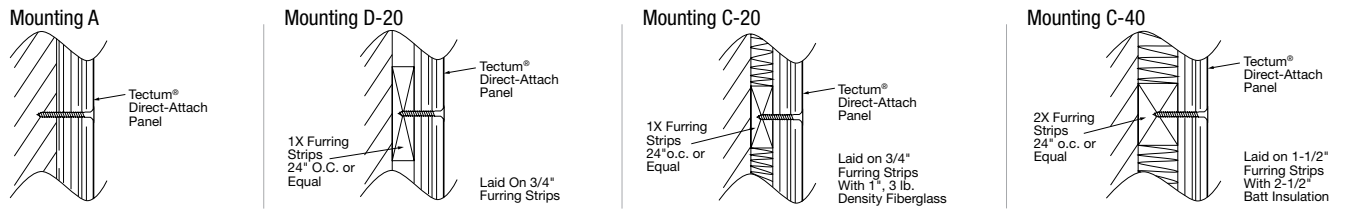
Panel Thickness	NRC	Mounting Method
1"	0.40	A
	0.45	D-20
	0.80	C-20
	0.85	C-40
I-Beam Application: 3.8 Sabins per 2' x 4' Tectum panel		
Truss Application: 2.9 Sabins per 2' x 4' Tectum panel		
1-1/2"	0.55	A
	0.60	D-20
	0.90	C-20
	0.95	C-40
2"	0.60	A
	0.70	D-20
	0.95	C-20
	1.00	C-40

### ACCESSORIES

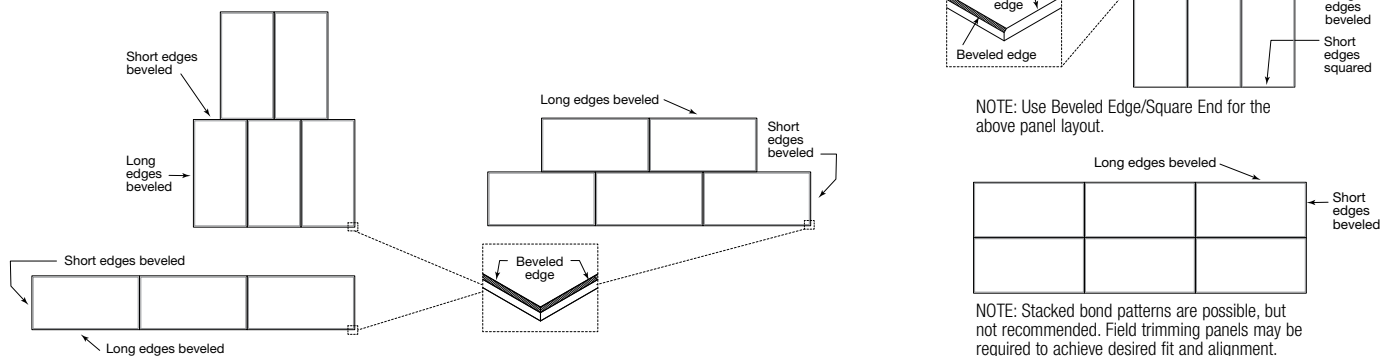
Item No. ◆	Description	Quantity
<b>1222</b>	Truss Fastening Kit – Field Paintable	20/ctn
<b>1222WH</b>	Truss Fastening Kit White	20/ctn
<b>1222BL</b>	Truss Fastening Kit Black	20/ctn
<b>8187L16</b> ___	#6 x1-5/8" Painted Head – Sharp point Screws	1000/ctn
<b>8188L16</b> ___	#6 x1-5/8" Painted Head – Drill point Screws	1000/ctn
<b>8189L22</b> ___	2-1/4" Painted Head – CMU Screws	500/ctn

◆ When specifying or ordering, include the appropriate 3-digit color suffix TNA = Natural; TWH = White (e.g. 8187L16 I W H)  
Consult installation instructions for fastener guidance.  
NOTE: Projects may require alternative screw lengths and types depending on site conditions. Please consult installation instructions for guidance.

### ACOUSTICAL MOUNTING METHODS



### EDGE DETAIL RECOMMENDATIONS



NOTE: Use Beveled Edge/Beveled End panels for all adjoining panel installations.



WALLS

# TECTUM® Direct-Attach Ceiling & Wall Panels coarse texture



Declare™  
Third Party Verified  
Living Product  
Imperative  
Certified



**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems



The mark of  
responsible forestry

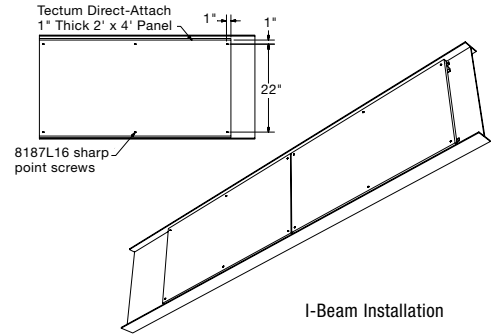
For LEED contribution visit  
[armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®	energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	biobased materials	FSC (for wood)	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
-------	-------------------	-------------------------	--------------------	------------------------	-----	------------------------------------	--------------------	----------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

LOCATION DEPENDENT



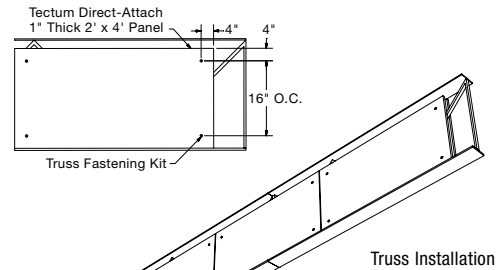
Tectum® Direct-Attach ceiling panels in White I-Beam installation



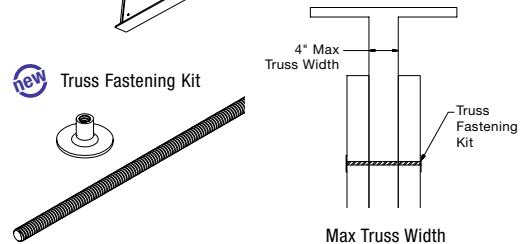
I-Beam Installation



Tectum® Direct-Attach panels with Black truss fastening



Truss Installation



Max Truss Width

## PHYSICAL DATA

### Material

#### FSC® Certified

Cementitious Wood Fiber; FSC®-certified (COC-003601). For more information about FSC®-certified fire-retardant products, or to view our FSC®-certification letter, contact TechLine at 1 877 276-7876.

#### Surface Finish

Factory-applied latex paint with Silicate surface coating for abuse resistance. Natural is unpainted.

#### Fire Performance

Class A per IBC. Flame Spread Index 25 or less and Smoke Developed Index 50 or less when tested in accordance with ASTM E84.

CAN/ULC S102 surface burning characteristics. Flame Spread Index of 25 or less and Smoke Developed Index of 50 or less.

#### VOC Emissions

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED®, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Tectum® panels meet CDPH guidelines in enclosed office at 50% wall coverage. View certificate details at [armstrongceilings.com/tectum](http://armstrongceilings.com/tectum).

### Humidity/Sag Resistance

HumiGuard® Plus performance panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

### Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

### Installation Considerations

Panels must be mechanically attached to approved substrate per installation instructions. To achieve proper finished visual panels should be installed in an ashlar pattern. Four-sided beveled edge panels are recommended in adjoining panel installations.

Use caution and wear appropriate hand, eye, and dust mask protection when cutting and installing Tectum® panels. Refer to installation instructions for complete details and cutting recommendations.

### Primary (Embodied) Energy

See all LCA information on our EPDs.

### Application Considerations

Color variation among panels is common due to the natural characteristics of the wood on White and Natural panels.

Wood fibers may appear orange on Natural colored panels due to the characteristics of the wood.

### Design Considerations

For walls that may experience condensation or moisture, such as uninsulated exterior walls, D- or C- mounting is required to create a gap between the structure and the panel. Max panel size for Truss and I-Beam application is 2' x 4' x 1".

### Design Support

Project management assistance is available by calling TechLine at 1 877 276-7876.

### Seismic Restraint

Tectum Direct-Attach panels are approved for application in all seismic areas when installed per the seismic guidelines in the Armstrong Ceilings Installation Instructions.

### Warranty

30-Year Warranty. Details at [armstrongceilings.com](http://armstrongceilings.com)

### Weight, Pcs and SF/Pallet

1" - 1.65 lbs/SF

1-1/2" - 2.53 lbs/SF

2" - 3.3 lbs/SF

8180T10 - 36 pcs/pallet; 1,152 SF/pallet

8181T10 - 72 pcs/pallet; 1,152 SF/pallet

8182T10 - 72 pcs/pallet; 572 SF/pallet

8173T10 - 36 pcs/pallet; 1,152 SF/pallet

8174T10 - 72 pcs/pallet; 1,152 SF/pallet

8175T10 - 72 pcs/pallet; 572 SF/pallet

LEED® is a registered trademark of the U.S. Green Building Council  
Revit® is a registered trademark of Autodesk, Inc.

Declare™ is a service mark of International Living Future Institute  
FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C., license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates.  
© 2019 AWI Licensing LLC Printed in the United States of America

513A

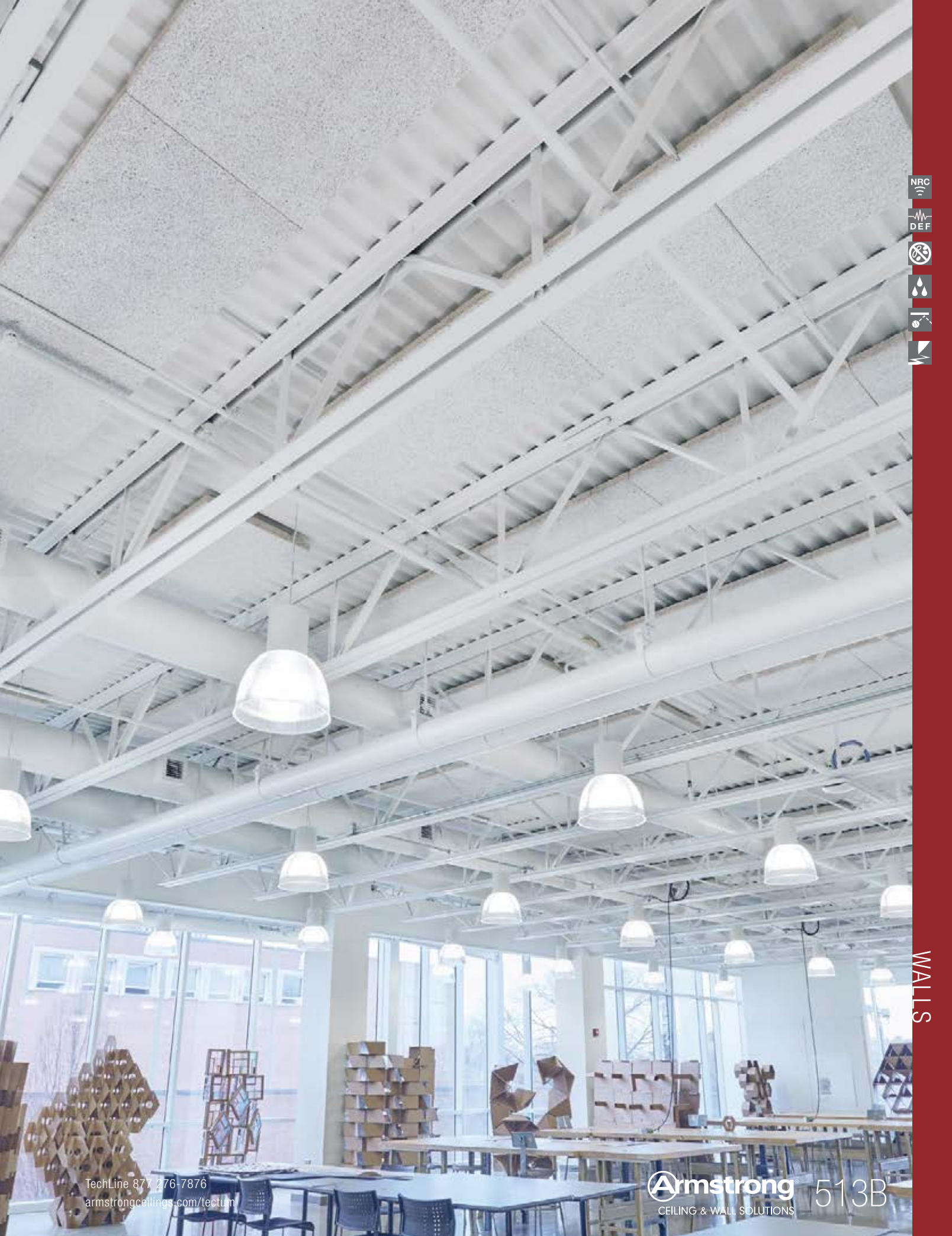
TechLine / 1 877 276-7876  
[armstrongceilings.com/tectum](http://armstrongceilings.com/tectum)

BPCS-5716-319

**Armstrong®**  
CEILING & WALL SOLUTIONS



WALLS



- NRC
- DEF
- Acoustic tile icon
- Water drop icon
- Fire icon
- Lightning bolt icon

WALLS

TechLine 877-276-7876  
armstrongceilings.com/tectum

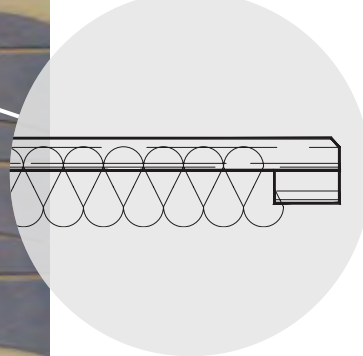
**Armstrong** 513B  
CEILING & WALL SOLUTIONS

# TECTUM® Finale™

## Acoustical Custom Wall Panels

coarse texture

CAD/Revit® drawings at:  
armstrongceilings.com



plus capabilities  
to do more



armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

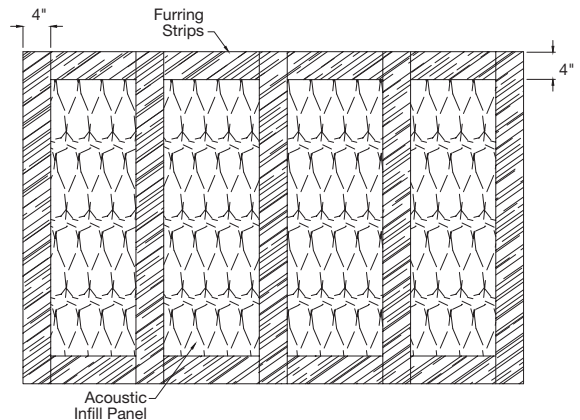
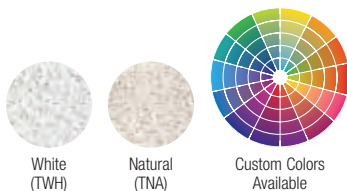
Tectum® Finale™ Wall Panels

Tectum® Finale™ high NRC wall panels provide durable, sustainable, acoustical options for a wide variety of applications.

### KEY SELECTION ATTRIBUTES

- Composite panel design combines Tectum® panel and acoustical absorptive material in one for maximum sound control and efficient installation
- Excellent Noise Absorption NRC up to 1.0 for maximum sound absorption (1" panels)
- Panel sizes in 1", 1-1/2", and 2" thickness; widths: 23-3/4" to 47-3/4"; lengths: 48" to 144"
- Available in White, Natural, and custom colors
- Abuse resistant for active spaces
- Long edges beveled, square ends
- Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, and more

**COLORS** Due to printing limitations, shade may vary from actual product.



### DETAILS



Product	Panel Thickness	Acoustics		Weight (Sq. Ft)
		A Mounting	NRC	
Finale™ Ceiling & Wall Panels	1" + 1" - 2"	0.75	0.75	3.00 lbs/SF
	1-1/2" + 1" - 2-1/2"	0.80	0.80	3.50 lbs/SF
	2" + 1-3"	-	-	4.00 lbs/SF



# TECTUM® Fabric Walls

## Acoustical Custom Wall Panels



Tectum® Fabric Walls

plus capabilities  
to do more

armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

Tectum® Fabric Walls help control noise and are ideal in open-plan, mixed use spaces.

### KEY SELECTION ATTRIBUTES

- Abuse-resistant, fabric wrapped panels attach directly to walls
- Excellent Noise Absorption – NRC up to 0.90
- Panel sizes in 1", 1-1/2", or 2" thickness; widths: 23-3/4" to 47-3/4"; lengths: 48" to 120"
- Tackable panels can be used for bulletin/display boards
- Mounting is quick and easy using internal spline system
- Long lasting, durable fabric options available
- Fabric wrapped to kerf, edges unfinished

**FABRICS** Due to printing limitations, shade may vary from actual product.



Custom Fabric  
Options Available

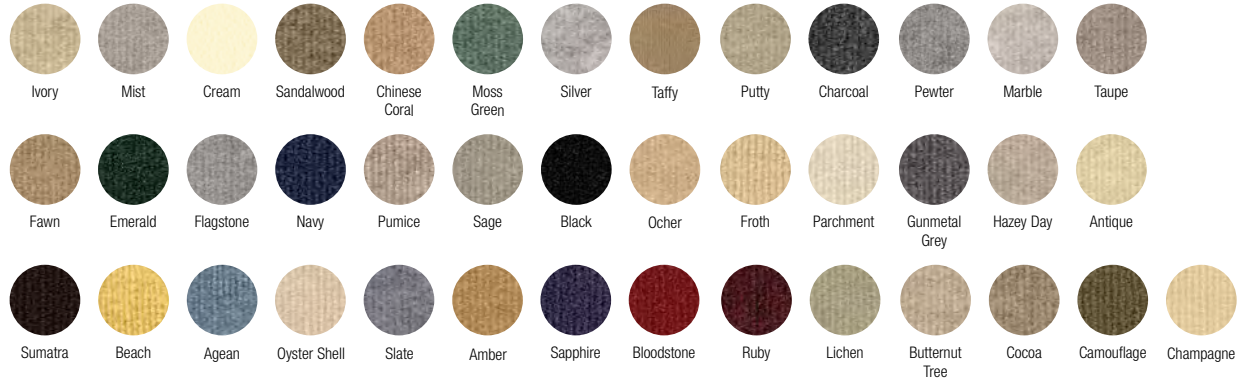
Product	Panel Thickness	Acoustics			Weight (Sq. Ft)
		A Mounting	D-20 Mounting	C-40 Mounting	
		NRC	NRC	NRC	
<b>Fabric Walls</b>	1"	0.50	0.60	0.90	1.63 lbs/SF

# TECTUM® Fabric Walls

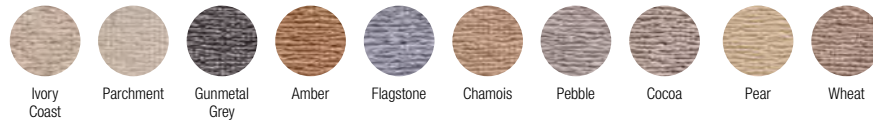
## Acoustical Custom Wall Panels

### HYTEX® OEM COLLECTION

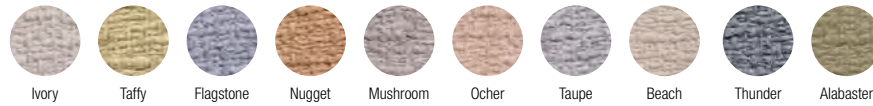
#### HYTEX® RIB



#### Trullo



#### Bambu'



#### Ripple



WALLS

# TECTUM® Fabric Walls

## Acoustical Custom Wall Panels

### GUILFORD OF MAINE FR701®





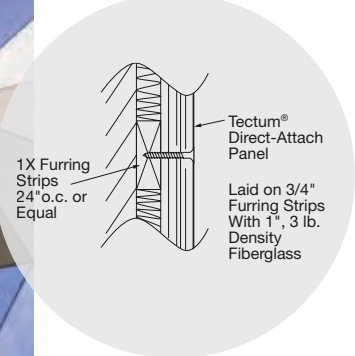
# TECTUM® Panel Art

## Custom Wall Panels

coarse texture

Declare™  
Third Party Verified  
Living Product  
Imperative  
Certified

CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



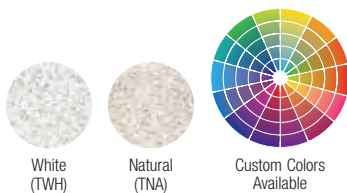
[armstrongceilings.com/capabilities](http://armstrongceilings.com/capabilities)  
See more photos at:  
[armstrongceilings.com/photogallery](http://armstrongceilings.com/photogallery)

Tectum® Panel Art wall panels offer unlimited design flexibility and easy installation.

### KEY SELECTION ATTRIBUTES

- Tectum® panels are Living Product Imperative Certified by the International Living Future Institute – 1" panels in White and Natural only
- Eight shapes and custom options available
- Choose from 1", 1.5", and 2" panel thickness: create your own custom shapes from panels up to 48" x 48"
- Noise absorption – NRC 0.40 (1" panel)
- Available in White, Natural, and custom colors
- Abuse resistant for active spaces
- All panels have beveled edges
- Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, and more

**COLORS** Due to printing limitations, shade may vary from actual product.



Product	Panel Thickness	Acoustics				Weight (Sq. Ft)
		A Mounting	D-20 Mounting	C-20 Mounting	C-40 Mounting	
		NRC	NRC	NRC	NRC	
Panel Art Ceiling & Wall Panels	1"	0.40	0.45	0.80	0.85	1.63 lbs/SF
	1-1/2"	0.60	0.60	0.90	0.95	2.53 lbs/SF
	2"	0.60	0.70	0.95	1.00	3.30 lbs/SF

**SHAPES** Examples of custom options



# SOUND SOAK®

## Standard and Custom Acoustical Wall Systems



Custom Soundsoak® Wall Panels

Easy-to-install wall system, available in a variety of fabrics and a wide range of sizes and custom options.

### KEY SELECTION ATTRIBUTES – STANDARD

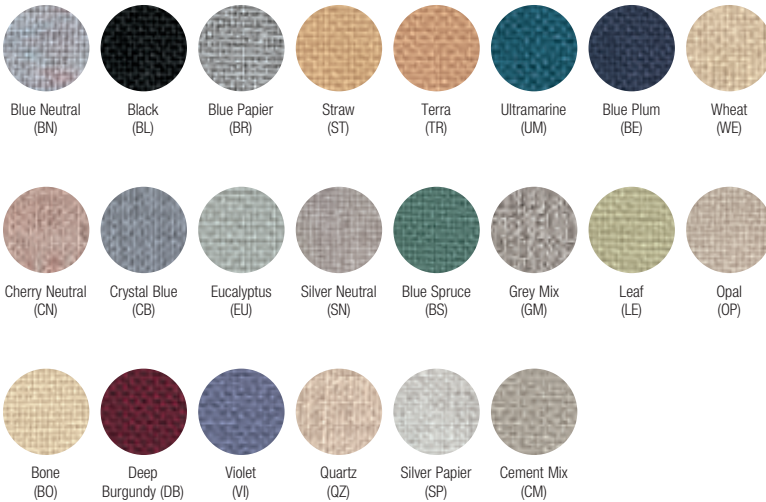
- Available in two substrates
- Acoustical Wall System with an inner core absorbs 50-90% of sound striking surface
- 3 to 6 times the sound absorption of fabric-covered gypsum
- Wide variety of chair rail accessories for design and durability
- Coordinate finishes with Soundsoak® Baffles (Pg. 80)
- Full standard finish offering at [armstrongceilings.com/soundsoak](http://armstrongceilings.com/soundsoak)

### KEY SELECTION ATTRIBUTES – CUSTOM

- Custom fiberglass panels up to 48" wide and 120" high on 1/2" – 4" fiberglass, in 1/2" increments
- Tackable options including 5/8" thick mineral fiber panels that will sit flush with door frames – perfect for offices and corporate environments
- Variety of impact resistant acoustical wall panels available for high-traffic and high-abuse areas
- Convex and concave curved panels in up to 48" x 120" sizes

### STANDARD FABRICS

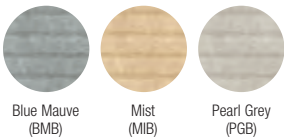
#### FR-701® (FR)



Fabrics are dye-lotted and should be segregated by dye lot. Do not mix.

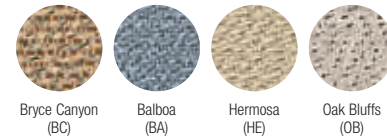
### COMPOSED FABRIC SURFACE

#### Rhythms® (RH)

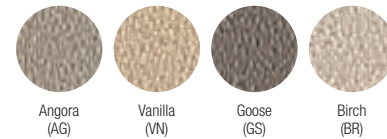


### WOVEN FABRIC SURFACE

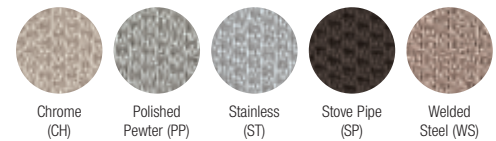
#### Lido™ (LD)



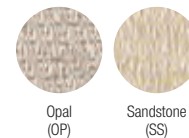
#### Anchorage™ (AN)



#### Metalation™ (MT)



#### Spinel™ (SP)



Colored fabrics are dye-lotted and should be segregated by dye lot. Do not mix.

NOTE: Standard SoundSoak® panel item numbers include references to size, fabric, and substrate. Consult your price list or contact TechLine for assistance with identifying item numbers.

73% MINERAL FIBER 52% RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengene](http://armstrongceilings.com/greengene)

# SOUNSOAK®

## Standard and Custom Acoustical Wall Systems

**LEED®**

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT

**VISUAL SELECTION** For Soundsoak corners, chair rails, and moldings, see Pgs. 528-529.

Product	Item No. ♦	Substrate	Finish	Dimensions		Panel Thickness	Surface Type*	NRC Rating		STC Rating†	
				Panel Width	Panel Height			A Mount	D Mount	1 Side	2 Sides
Soundsoak 60	40__0__	Mineral Fiber	Woven Fabric Composed Fabric	30"	72", 96", 108", 120" (06) (08) (09) (10)	3/4"	W: FR, AN, MT, LD, SP C: RH	0.65	0.70	43	45
Soundsoak 85	32__1__	Fiberglass	Woven Fabric Composed Fabric	24"	72", 96", 108", 120" (06) (08) (09) (10)	1"	W: FR, AN, MT, LD, SP, RH C: RH	0.80	0.90	-	-

\* FR-701® (FR), Lido™ (LD), Spinel™ (SP), Metallation™ (MT), Anchorage™ (AN), Rhythms® (RH)

♦ When specifying or ordering, add panel height, surface type, and color.

† 3-5/8" metal studs with one layer of 5/8" drywall on both sides and Soundsoak 60 on one or both sides.

**EXAMPLES:**

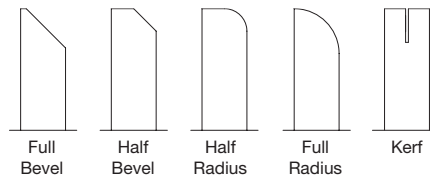
40 08 0 FR BN      32 10 1 RH BMB

Panel Type: SS 60 Woven    Panel Height: 08 Ft.    Surface Type: FR-701    Color: Blue Neutral    Panel Type: SS 85    Panel Height: 10 Ft.    Surface Type: Rhythms    Color: Blue Mauve



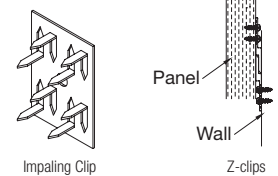
### EDGE DETAILS

Fabric-wrapped edge profile options on custom panels include: square, beveled, mitered and radiused edges.



### FLEXIBLE INSTALLATION

- Impaling Clips
- Z-clips
- Adhesive



### ACOUSTICAL PERFORMANCE

Fiberglass Thickness	NRC*
3/4"	0.70
1"	0.80
1-1/8"***	0.85
1-1/2"	0.95
2"	1.05
2-1/8"***	0.95
3"	1.15

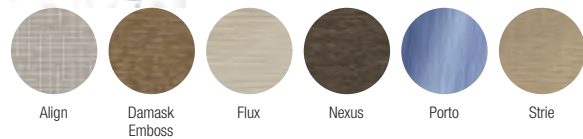
\* Acoustical performance may vary depending on the fabric used.  
\*\* 2"- and 3"- thick panels are designed to reduce noise and reverberation in spaces, especially those exposed to exterior transportation noise or interior equipment and appliance noise.

† Fiberglass with 1/8" MFG for impact resistance

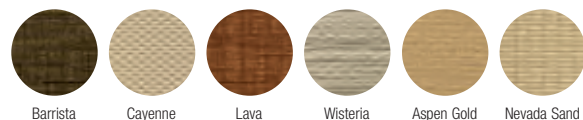
### CUSTOM FABRICS (PARTIAL LIST)

NOTE: Custom Soundsoak is also available in all standard woven Soundsoak fabrics. Choose from a large selection of panel fabrics and vinyls from manufacturers like: Guilford of Maine, Hytex, Carnegie, Koroseal, Maharam, Knoll, Designtex.

#### Carnegie



#### HYTEX®



#### DESIGN TEX



Guilford of Maine® is a registered trademark of Guilford of Maine. Hytex® is a trademark of Hytex Industries. Koroseal® is a trademark of RJF International Corporation. Carnegie® is a registered trademark of Carnegie Corporation, Inc. Maharam® is a registered trademark of Maraham fabric corporation. Knoll® is a registered trademark of Knoll, Inc. Designtex® is a registered trademark of Steelcase Corporation.

### PHYSICAL DATA

#### Fire Performance

Tested to ASTM E84 – 25/200  
Tested to CAN/ULC S102 – 25/250 Composite  
Class A rating per IBC (fabric, substrate, and adhesive)

For more details on Soundsoak fire performance, visit our web site at [armstrongceilings.com/soundsoak](http://armstrongceilings.com/soundsoak)

#### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

# OPTIMA™ & PAINTED NUBBY™ Wall Panels

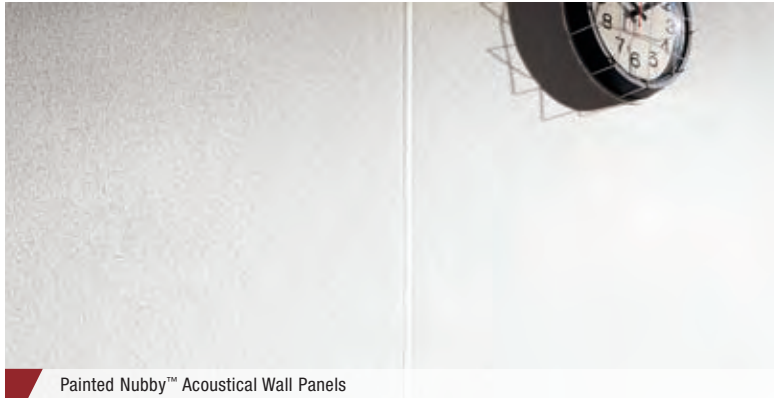
UP TO **71%** RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

LOCATION DEPENDENT



Painted Nubby™ Acoustical Wall Panels

Wall panels with a bright surface that provide excellent sound absorption.

## KEY SELECTION ATTRIBUTES

- |                     |                      |
|---------------------|----------------------|
| <b>Optima</b>       | <b>Painted Nubby</b> |
| • Durability        | • Bright surface     |
| • Washable          |                      |
| • Scratch-resistant |                      |
| • Soil-resistant    |                      |
| • Smooth surface    |                      |

## COLOR



White

## INSTALLATION ACCESSORIES

Description	Item No.	Dimensions (Inches)	Color
<b>C CHANNEL</b>			
Extruded PVC Plastic	<b>3107</b>	1 x 96 x 1"	White
<b>H CHANNEL</b>			
Extruded PVC Plastic	<b>3108</b>	1-5/8 x 96 x 1"	White

A Mounting – Mounting directly against existing surface D-20 Mounting – Mounting spaced 3/4" from existing surface using 1" x 4" furring strips

## VISUAL SELECTION

Substrate	Finish	Item No.	Dimensions (Inches)
<b>OPTIMA™</b>			
Fiberglass	DuraBrite®	<b>3154</b>	48 x 96 x 1"
<b>PAINTED NUBBY</b>			
Fiberglass	Woven Cloth	<b>3104</b>	48 x 96 x 1"

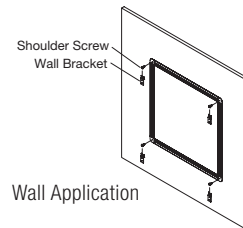
## PERFORMANCE

Dots represent high level of performance.

A Mounting	NRC Rating	
	A Mounting	D-20 Mounting
NRC	NRC	NRC
0.80	0.90	0.90
0.70	0.80	0.80

For performance and physical data, see pgs. 344-347.

# SOUNDSCAPES™ SHAPES Wall Panels



Wall Application

For more information, see pgs. 110-113



SoundScapes™ Shapes wall panels 5440 and 5448 in Tangerine – upper wall and ceiling; Soundsoak® Custom Wall Panels in coordinating fabric – lower wall

## KEY SELECTION ATTRIBUTES

- 10 shape options
- Coordinate with Armstrong® ceilings or other interior finishes, including SoundScapes® Blades™ and Shapes, Infusions® lay-in panels, walls, and partitions, or Create!™ ceilings.
- Quick and easy to install directly to wall

## COLORS

Due to printing limitations, shade may vary from actual product.

White (WH), Shell (SH), Pale Lemon (LM), Pecan (PC), Sky (SK), Moss (MS), Stone (SE), Reef (RE), Lagoon (LA), Plum (PM), Cranberry (CN), Kiwi (KW), Tangerine (TG), Black (BK)

Custom Colors Available



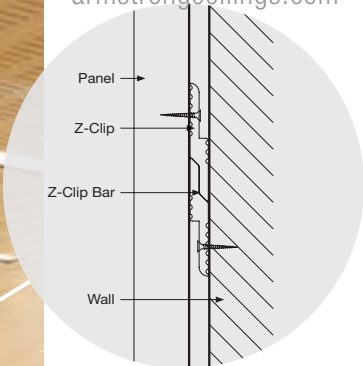
WALLS

# WOODWORKS®

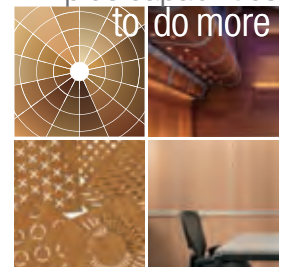
## Standard Wall Panels



CAD/Revit® drawings at:  
armstrongceilings.com



plus capabilities  
to do more



armstrongceilings.com/capabilities  
See more photos at:  
armstrongceilings.com/photogallery

WoodWorks® wall panels 24" x 48" on Z-Clips and WoodWorks® Vector® ceiling panels 24" x 48" with custom perforation (running parallel to the short side of the panel) in custom Vertical Grain Douglas Fir

Wall system available in a variety of wood species, stains, sizes, and perforation options.

### KEY SELECTION ATTRIBUTES

- Coordinate veneer choice with WoodWorks® ceilings
- Install panels horizontally or vertically using clips or splines
- Perforated panel with acoustical backing improves sound quality and reduces reverberation time within a space
- USDA-Certified Biobased Product 100% (preferred for government projects)

**VENEERS** Due to printing limitations, shade may vary from actual product.

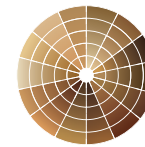
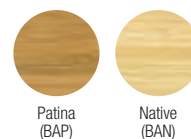
#### Natural Variations™ (Real Wood Veneers)



#### Constants™ (Real Wood Veneers)



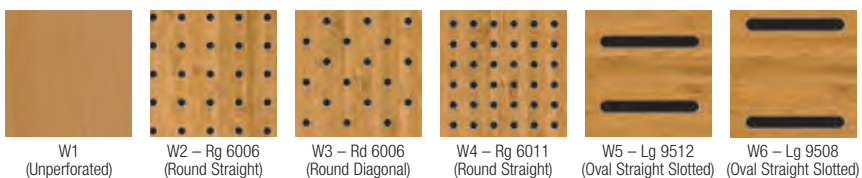
#### Bamboo\*



Custom Veneers Available

\* Veneer is rapidly renewable. Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

### PERFORATION OPTIONS (Actual 1:6 scale shown)



Custom Perforations Available

NOTE: Slotted perforations run parallel to the length of the panel.



# WOODWORKS®

## Standard Wall Panels



92% RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)



### VISUAL SELECTION

Item No. ♦	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	Perforation Options	Installation Options	Finish Options
<b>FSC® certified WOODWORKS® Wall Panels with Acoustical Fleece</b>				
5814	23-3/4 x 47-3/4 x 3/4"	W1, W2, W3, W4, W5, W6	X (Z-Clip installation) K (Spline installation – 4 panel sides kerfed)	NMP, NLC, NDC, BAP, BAN
5818	23-3/4 x 95-3/4 x 3/4"	W1, W2, W3, W4, W5, W6	X (Z-Clip installation) K (Spline installation – 4 panel sides kerfed)	NMP, NLC, NDC, BAP, BAN
5819	23-3/4 x 107-3/4 x 3/4"	W1, W2, W3, W4, W5, W6	X (Z-Clip installation) K (Spline installation – 4 panel sides kerfed)	NMP, NLC, NDC, BAP, BAN
5820	23-3/4 x 119-3/4 x 3/4"	W1, W2, W3, W4, W5, W6	X (Z-Clip installation) K (Spline installation – 4 panel sides kerfed)	NMP, NLC, NDC, BAP, BAN

♦ When specifying or ordering, include the appropriate perforation, installation, and finish suffixes. (e.g., 5814 W 1 K N M P)  
NOTE: For veneers and sizes available as special order, call TechLine at 1 877 276-7876.

### ACOUSTICAL INFORMATION

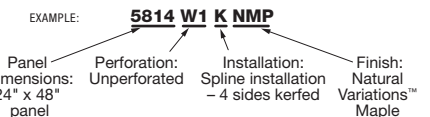
Dots represent high level of performance.

Perforation	NRC Rating	
	D Mounting w/ Acoustical Fleece	D Mounting w/ 1" Fiberglass Infill* NRC
<b>W1</b>	N/A	N/A
<b>W2</b>	0.50	0.65
<b>W3</b>	0.50	0.65
<b>W4</b>	0.55	0.80
<b>W5</b>	0.45	0.70
<b>W6</b>	0.45	0.60

\* Fiberglass Infill Panel Item 8200T10

WoodWorks Walls perforations align with the following ceiling panels:

Perforation	WoodWorks® Vector®	WoodWorks Concealed
<b>W2</b>	yes	yes
<b>W3</b>	yes	yes
<b>W4</b>	yes	no
<b>W5</b>	yes	no
<b>W6</b>	yes	no



### ACCESSORIES

For corners, splines, Z-Clips, and infill panel options, see Pgs. 528-529.

### PHYSICAL DATA

#### Material

FSC®-certified fire-retardant particle board with face-cut veneers (SW-COC-003601). For more information about FSC®-certified products, or to view our FSC®-certification letter, visit [armstrongceilings.com/woodworksfsc](http://armstrongceilings.com/woodworksfsc)

#### Surface Finish

Clear or tinted semigloss coating

#### Fire Performance

Class A ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics.

Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

#### Application Considerations

Variation among panels may occur due to the natural characteristics of the wood and grain (special order panels available).

It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55% and temperatures between 50°F and 86°F must be maintained throughout the life of the product.

#### Design Considerations

The reveal width on WoodWorks Tegular panels and WoodWorks Walls is different. For an application with the same size reveal in the ceiling and on the wall, order custom-cut panels or use Vector® ceiling panels Z-clipped to the wall.

#### Specification Consideration

Attention: For FSC-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

#### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

#### Weight; Square Feet/Carton

Panels – 2.75 lbs/SF; bulk packaged per order.

Rainforest Alliance Certified® is a registered trademark of the Rainforest Alliance Inc.; LEED® is a registered trademark of the U.S. Green Building Council; Revit® is a registered trademark of Autodesk, Inc. FSC® is a registered trademark of FSC Forest Stewardship Council®, A.C., license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America

TechLine / 1 877 276 7876  
[armstrongceilings.com/walls](http://armstrongceilings.com/walls)  
(search: woodworks walls)  
BPCS-5098-319

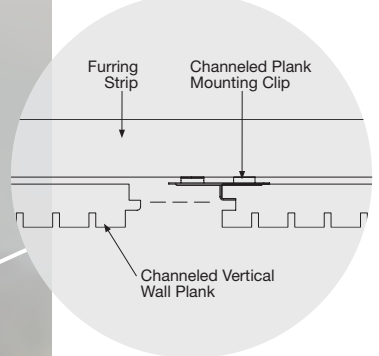
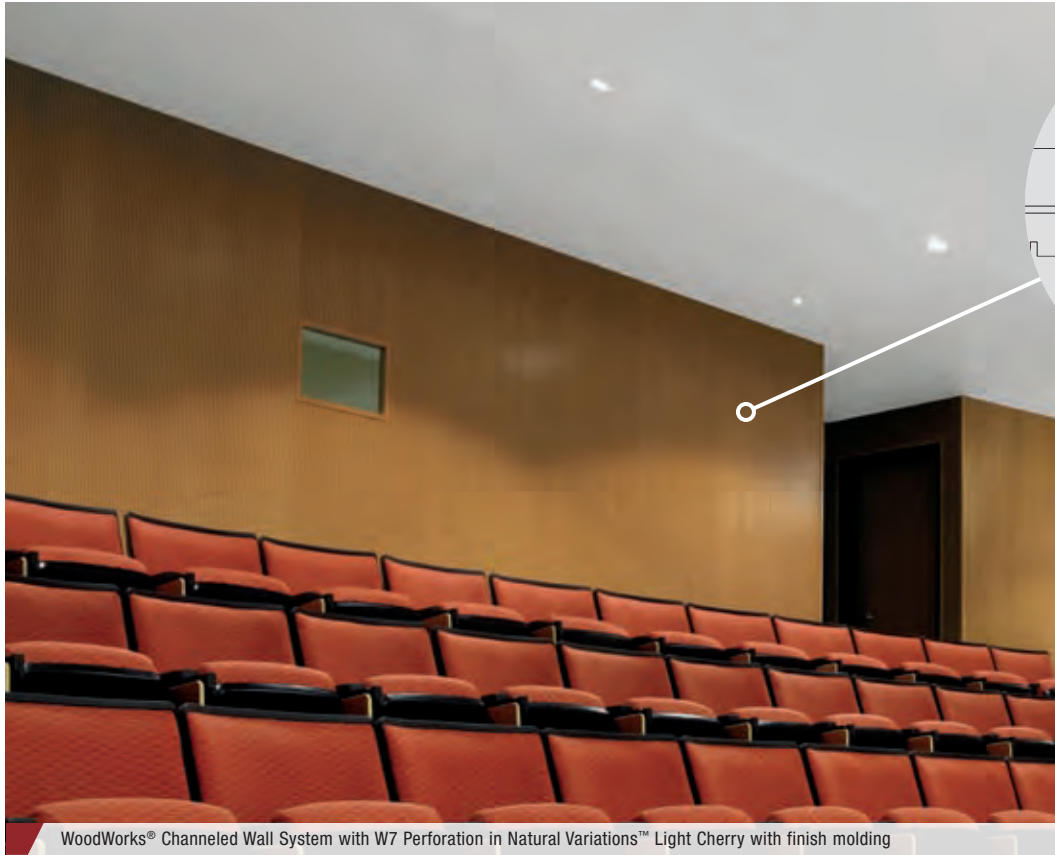
**Armstrong®**  
CEILING & WALL SOLUTIONS

521

WALLS

# WOODWORKS® Channeled Standard Wall Plank

CAD/Revit® drawings at:  
armstrongceilings.com



See more photos at:  
armstrongceilings.com/photogallery  
SEARCH: woodworks channeled

WoodWorks® Channeled Wall System with W7 Perforation in Natural Variations™ Light Cherry with finish molding

Perforated wall panels with acoustical backing that improves sound quality and reduces reverberation time.

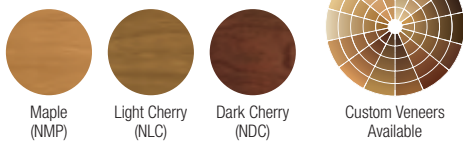
## KEY SELECTION ATTRIBUTES

- Install in the ceiling, on the wall, or create 90° angled ceiling-to-wall transitions
- Two plank lengths available as standard products
- California Air Resources Board (CARB) compliant
- USDA-Certified Biobased Product 100% (preferred for government projects)
- Shorter lead times and lower cost than custom millwork

## VENEERS

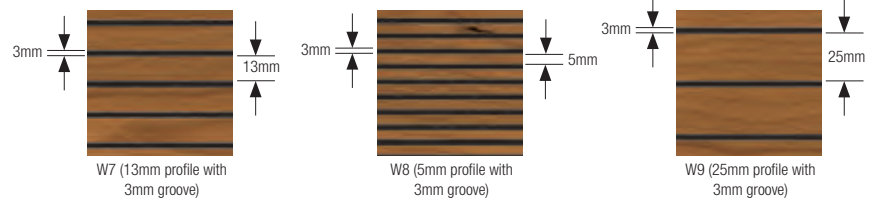
Due to printing limitations, shade may vary from actual product.

### Natural Variations™ (Real Wood Veneers)



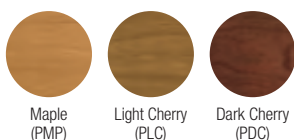
## VENEER PERFORATION OPTIONS

(Actual 1:2 scale shown)



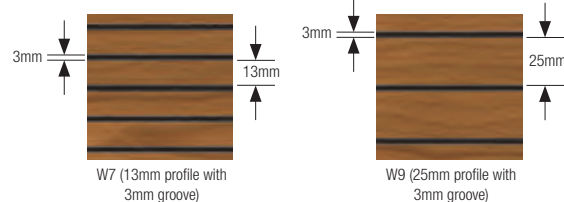
## IMAGES™ FINISHES

(High Quality Printed Finishes)



## IMAGES PERFORATION OPTIONS

(Actual 1:2 scale shown)



# WOODWORKS® Channeled Standard Wall Plank



USDA  
CERTIFIED  
BIOBASED  
PRODUCT 88%



The mark of responsible forestry

UP TO 92% RECYCLED CONTENT

LEED® energy management construction waste mgmt regional materials design for flexibility EPD

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

recyclable/extended producer resp. biobased materials FSC (for wood) recycled content sourcing of raw materials material ingredient reporting low emitting materials lighting quality acoustics

## VISUAL SELECTION – IMAGES™ FINISHES

Edge Profile	Item No. ♦	Dimensions Nominal W x L x H (Inches) Custom Sizes Available	
<b>WOODWORKS® Natural Variations™ FSC® certified Channeled Wall Plank Perforated with Acoustical Fleece</b>			
	<b>5900WW7</b> _ _ _	5.553 x 96 x 3/4"	
	<b>5900WW8</b> _ _ _	5.553 x 96 x 3/4"	
	<b>5900WW9</b> _ _ _**	5.553 x 96 x 3/4"	
	<b>5901WW7</b> _ _ _	5.553 x 120 x 3/4"	
	<b>5901WW8</b> _ _ _	5.553 x 120 x 3/4"	
	<b>5901WW9</b> _ _ _**	5.553 x 120 x 3/4"	
<b>WOODWORKS® Images™ FSC® certified Channeled Wall Plank Perforated with Acoustical Fleece</b>			
	<b>6688WW7</b> _ _ _	5.553 x 96 x 0.688"	
	<b>6688WW9</b> _ _ _**	5.553 x 96 x 0.688"	
	<b>6689WW7</b> _ _ _	5.553 x 120 x 0.688"	
	<b>6689WW9</b> _ _ _**	5.553 x 120 x 0.688"	

♦ When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 5900WW7 N M P)  
 † NRC 0.75 or 0.90 when installed with bioacoustic infill 5479.  
 †† NRC 0.50 or 0.70 when installed with fiberglass infill 8200T10.  
 NOTE: For sizes available as special order, call TechLine at 1 877 276-7876.  
 \*\* Size width for panels with W9 perforation is 5.393".

## ACCESSORIES For corners, clips, and infill panel options, see pages 528-529.

Item No.	Description	Dimensions	Color	Pcs/Ctn
<b>5389</b>	Channeled Clip	N/A	Black	250

## PHYSICAL DATA – Natural Variations

**Material**  
FSC® certified fire retardant medium density fiberboard with face-cut veneers (SW-COC-003601). For more information about FSC-certified products or to view our FSC certification letter, visit [armstrongceilings.com/woodworksfsfc](http://armstrongceilings.com/woodworksfsfc)

**Surface Finish**  
Clear or tinted semigloss coating

**Fire Performance**  
ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

**Application Considerations**  
Variation among panels may occur due to the natural characteristics of the wood and grain.

It is very important that WoodWorks® panels are climatized prior to installation. Relative humidity between 25% and 55% and temperatures between 50°F and 86°F must be maintained throughout the life of the product.

**Specification Consideration**  
Attention: For FSC-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight; Square Feet**  
2.2 lbs/SF (Bulk packed)

## PHYSICAL DATA – Images Finishes

**Material**  
Fire retardant medium density fiberboard with high quality printed visual.

**Surface Finish**  
Clear semigloss coating

**Fire Performance**  
ASTM E84 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

**ASTM E1264 Classification**  
Composite – Fire Class A

**Application Considerations**  
Images finishes feature a high-definition print finish. A pattern repeat will occur approximately every 30".  
It is very important that WoodWorks panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F must be maintained throughout the life of the product.

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Panel Weight; Square Feet/Carton**  
2.2 lbs/SF (Bulk packed)

TechLine / 1 877 276-7876  
[armstrongceilings.com/walls](http://armstrongceilings.com/walls)  
(search: woodworks)  
BPCS-5099-319

LEED® is a registered trademark of the U.S. Green Building Council  
Revit® is a registered trademark of Autodesk, Inc.  
FSC® is a registered trademark of FSC Forest Stewardship Council, A.C., license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2019 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

523



WALLS

# WOODWORKS® Ekos®

## Standard Wall Panels

CAD/Revit® drawings at:  
[armstrongceilings.com](http://armstrongceilings.com)



WoodWorks® Ekos® Acoustical Wall System in Ekos Dark Cherry perforated with reveal accent trim in Natural Aluminum



See more photos at:  
[armstrong.com/photogallery](http://armstrong.com/photogallery)  
SEARCH: ekos

Standard wall panels in a variety of veneers with no detectable VOC emissions.

### KEY SELECTION ATTRIBUTES

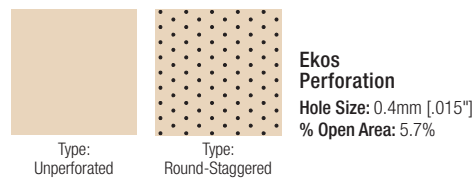
- Panels can be installed horizontally or vertically
- Can help contribute to LEED® credits with no added formaldehyde and high-recycled content
- Less expensive and easier to install than custom millwork

### VENEERS

Due to printing limitations, shade may vary from actual product.



### PERFORATION OPTIONS (Actual 1:1 scale shown)



# WOODWORKS® Ekos®

## Standard Wall Panels

73% RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)



### VISUAL SELECTION

Item No. ♦	Description	Dimensions (Inches)	Pcs/Ctn	Ekos Finishes
<b>Unperforated Panels</b>				
5800_ _ _	8' Ekos Wall Panel Unperforated	96 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG
5801_ _ _	9' Ekos Wall Panel Unperforated	108 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG
5802_ _ _	Nominal 10' Ekos Wall Panel Unperforated	118 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG
<b>Perforated Panels</b>				
5803_ _ _	8' Ekos Wall Panel Perforated	96 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG
5804_ _ _	9' Ekos Wall Panel Perforated	108 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG
5805_ _ _	Nominal 10' Ekos Wall Panel Perforated	118 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG
<b>Unperforated Horizontal Panels</b>				
5970_ _ _	8' Ekos Horizontal Wall Panel Unperforated	96 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG
5971_ _ _	9' Ekos Horizontal Wall Panel Unperforated	108 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG
5972_ _ _	Nominal 10' Ekos Horizontal Wall Panel Unperforated	118 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG
<b>Perforated Horizontal Panels</b>				
5973_ _ _	8' Ekos Horizontal Wall Panel Perforated	96 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG
5974_ _ _	9' Ekos Horizontal Wall Panel Perforated	108 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG
5975_ _ _	Nominal 10' Ekos Horizontal Wall Panel Perforated	118 x 24 x 5/8"	2 or 4	MP, LC, DC, or HG

### PERFORMANCE

Acoustics NRC Rating (Mounting)		Acoustics STC Rating* (1 side   2 sides)		VOC Formaldehyde	Recycling Program
N/A	N/A	43	46	No added	Yes
N/A	N/A	43	46	No added	Yes
N/A	N/A	43	46	No added	Yes
0.45	0.50	43	46	No added	Yes
0.45	0.50	43	46	No added	Yes
0.45	0.50	43	46	No added	Yes
N/A	N/A	43	46	No added	Yes
N/A	N/A	43	46	No added	Yes
N/A	N/A	43	46	No added	Yes
0.45	0.50	43	46	No added	Yes
0.45	0.50	43	46	No added	Yes
0.45	0.50	43	46	No added	Yes

♦ When specifying or ordering, please include pieces/carton and color suffix. EXAMPLE: 5805 4 H G – for nominal 10' perforated panels in Ekos Mahogany finish.  
 \* See wall construction in physical data below for test wall construction.

### ACCESSORIES

For installation splines, corners, chair rails, etc., see pages 528-529 in catalog, WoodWorks® Ekos® brochure, or [armstrongceilings.com/ekos](http://armstrongceilings.com/ekos)

### PHYSICAL DATA

**Panel Material**  
Mineral fiber with real wood veneers. Face veneers are quarter-cut, random-matched Anigre or Makore veneers stained to the Ekos® panel finishes.

**Panel Surface Finish**  
Tinted, no-solvent coatings on face veneers.

**Accessory Material**  
Milled solid wood stained to coordinate with Ekos finishes. Extruded aluminum.

**Wall Construction**  
Wall construction is one layer 5/8" drywall each side of 3-5/8" metal stud, with Ekos panels attached on one or both sides.

**Fire Performance**  
Class B fire performance per IBC. Flame Spread Rating of 50 or less and Smoke Developed Classification of 100 or less when tested per ASTM E84 or CAN/ULC S102.

**Application Considerations**  
Due to the natural characteristics of veneers, variations in color and grain can be expected. Do not mix panels from different lots. Veneered panels may also darken over time.

It is very important that WoodWorks® Ekos panels are climatized prior to installation. Relative humidity between 25% and 55% and temperatures between 50°F and 86°F must be maintained.

Ekos wall panels are not recommended for use in high-traffic or high-impact areas. For these areas, contact TechLine at 1 877 276-7876 to explore WoodWorks custom wall systems.

Ekos wall panels may be installed horizontally. For more details, see [armstrongceilings.com/walls](http://armstrongceilings.com/walls).

**Warranty**  
Details at [armstrongceilings.com](http://armstrongceilings.com)

**Weight/Square Feet**  
1.6 lbs/SF

TechLine / 1 877 276-7876  
[armstrongceilings.com/ekos](http://armstrongceilings.com/ekos)  
(search: woodworks)  
BPCS-5100-718

LEED® is a registered trademark of the U.S. Green Building Council  
Revit® is a registered trademark of Autodesk, Inc.  
A.C., license code FSC-C007626. All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

**Armstrong®**  
CEILING & WALL SOLUTIONS

525

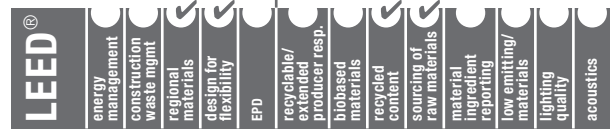
WALLS



# INFUSIONS™ Partitions

40% RECYCLED CONTENT

Calculate LEED contribution at  
armstrongceilings.com/greengenie



▲ LOCATION DEPENDENT

Wall partitions in a variety of translucent colors and patterns.

### KEY SELECTION ATTRIBUTES

- Coordinate with Armstrong® ceilings or other interior finishes including Infusions Walls, Lay-in Panels, and Canopies, SoundScapes® Blades™ and Shapes, or Create!™ ceilings.
- Standard products create a custom look
- Hang individually or in groups
- Panels and installation hardware packaged in one complete kit
- For Infusions® ceiling panels, see pages 260-263. For Infusions® Blades™ panels, see page 70. For Infusions® Shapes, see page 99. For Infusions® Canopies, see page 98. For Infusions™ Walls, see page 527.

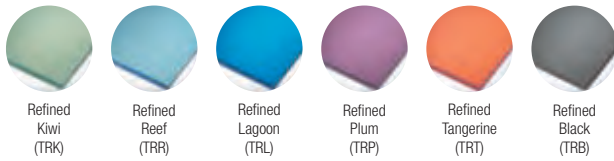
For more information, visit [armstrongceilings.com/infusions](http://armstrongceilings.com/infusions).



Infusions™ Partition in Spun Copper

### COLORS/PATTERNS Due to printing limitations, shade may vary from actual product


#### Solids – SoundScapes™ Coordinating Colors



#### Patterns – Goldtones



### VISUAL SELECTION

Item No. ♦	Dimensions (Inches)	Color
<b>INFUSIONS™ Partitions</b>		
5845_ _ _	24 x 72 x 1/4" 	See above

♦ When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 5845 I B K.)  
NOTE: Ceiling Hanging Kit and Floor Mounting Kit hardware included with panels.  
Joining Kits must be ordered separately.

### ACCESSORIES

Item No.	Description	Color	Pcs/Ctn
5827	Joining Kit 	Silver	3 Clamps

### PHYSICAL DATA

**Material**  
PETG

**Surface Finish**  
Smooth

**Fire Performance**  
Infusions™ panels have been tested according to NFPA 286 and are equivalent to Class A Interior Finish as defined by the International Building Code.  
Contact TechLine at 1 877 276-7876 for specific U.S. and Canadian fire performance data.

#### Installation and Design Considerations

Do not allow panel edges to get wet. Infusions panels are not approved for exterior application.

Panel kits include ceiling hanging kit and floor mounting kit hardware. Floor mounting hardware is optional, but recommended. Floor mounting hardware requires field drilling pilot holes in panels.

Linking kits must be ordered separately.

Panels can be damaged by exposure to high temperatures. Panel temperature should not be permitted to exceed 100°F.

#### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

#### Weight; Pieces/Carton

Panel weight – 25 lbs  
2 pieces/carton  
Carton weight – 55 lbs

TechLine / 1 877 276-7876  
[armstrongceilings.com/infusions](http://armstrongceilings.com/infusions)  
(search: infusions partitions)  
BPCS-4235-718

LEED® is a registered trademark of the U.S. Green Building Council  
All other trademarks used herein are the property of AWI Licensing LLC  
and/or its affiliates © 2018 AWI Licensing LLC  
Printed in the United States of America

# INFUSIONS™ Walls

**40% RECYCLED CONTENT**

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

<b>LEED®</b>	energy management	construction waste to right	regional materials	design for flexibility	EPD	recyclable/extended producer resp.	low embodied materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting materials	lighting quality	acoustics
--------------	-------------------	-----------------------------	--------------------	------------------------	-----	------------------------------------	------------------------	------------------	---------------------------	-------------------------------	------------------------	------------------	-----------

▲ LOCATION DEPENDENT



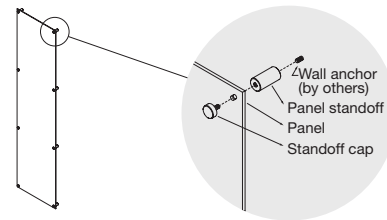
Infusions™ Walls 24" x 96" in Spun Copper

Wall System available in translucent colors and patterns that can be hung individually or in a group.

### KEY SELECTION ATTRIBUTES

- Coordinate with Armstrong ceilings or other interior finishes; i.e., Infusions® Partitions, Lay-in Panels, and Canopies, SoundScapes® Blades™ and Shapes, or Create!™ ceilings
- Factory-drilled to accept Point Support hardware kit
- Aluminum Point Support Kit offers contemporary sleek visual
- For Infusions panels, see pages 260-263.  
For Infusions® Blades™ panels, see page 70.  
For Infusions® Shapes, see page 99.  
For Infusions® Canopies, see page 98.  
For Infusions™ Partitions, see page 527.

For more information, visit [armstrongceilings.com/infusions](http://armstrongceilings.com/infusions).



### COLORS/PATTERNS (Partial List) Due to printing limitations, shade may vary from actual product.

#### Goldtones



Spun Copper (TSC)  
Crushed Copper (TCC)

#### Linen



Natural Linen (TNL)†  
Blue Linen (TBL)†

#### Crystallines



Crystalline Silverado (TSV)  
Crystalline Focus (TCR)  
Crystalline Sky (TSY)

#### Tones-on-tones



Indigo Surf (TNS)

#### Arbors



Clear Arbor (TCA)

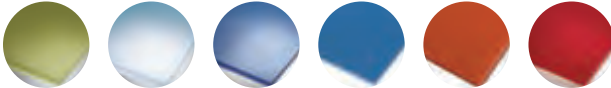
† Color may vary panel to panel.

### COLORS/SOLIDS Due to printing limitations, shade may vary from actual product.

#### Solids

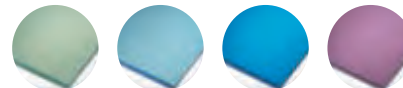


Cultured Pearl (TCP)  
Inspiration Ice (TNC)  
Calm Water (TCW)  
Natural Faith (TNF)  
Loyalty Latte (TLL)  
Caribbean Renewal (TAR)

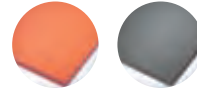


Sage Happiness (TSH)  
Peace Blue (TPB)  
Sheer Iris (TSI)  
Blueberry Bliss (TBB)  
Sedona Spirit (TSS)  
Red Fire (TRF)

#### SoundScapes® Panels Coordinating Colors




Refined Kiwi (TRK)  
Refined Reef (TRR)  
Refined Lagoon (TRL)  
Refined Plum (TRP)



Refined Tangerine (TRT)  
Refined Black (TRB)

### VISUAL SELECTION

Item No. ♦	Dimensions (Inches)	Colors	Pcs./Pck.
<b>INFUSIONS™ Walls</b>			
<b>5824</b> _ _	24 x 96 x 1/4" 	See above	2

♦ When specifying or ordering, include the appropriate 3-letter color suffix (e.g., 5824 I C E).  
NOTE: Panel kit does not include hardware. Infusions™ Wall panel hardware kit must be ordered separately.

### ACCESSORIES

Item No.	Description	Colors	Pcs./Ctn.
<b>5848</b>	Infusions Wall Panel Hardware Kit	Aluminum	16 Point Supports

NOTE: Wall Anchor not provided in kit. Point Support includes panel standoff and standoff cap.

### PHYSICAL DATA

**Material**  
PETG

**Surface Finish**  
Smooth

#### Fire Performance

Infusions™ panels have been tested according to NFPA 286 and are equivalent to Class A Interior Finish as defined by the International Building Code.

TechLine / 1 877 276 7876  
[armstrongceilings.com/walls](http://armstrongceilings.com/walls)  
(search: infusions walls)  
BPCS-5102-718

Contact TechLine at 1 877 276-7876 for specific US and Canadian fire performance data.

#### Installation and Design Considerations

Do not allow panel edges to get wet.

Infusions panels are not approved for exterior application.

Natural Linen and Blue Linen colors may vary panel to panel.

Wall anchor hardware is provided by others. A minimum gap of 1/4" is required between panels. Panels are pre-drilled for Point Supports.

LEED® is a registered trademark of the U.S. Green Building Council  
All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates © 2018 AWI Licensing LLC  
Printed in the United States of America

Panels can be damaged by exposure to high temperatures. Panel temperature should not be permitted to exceed 100°F. There is potential for limited deflection of panels.

#### Warranty

Details at [armstrongceilings.com](http://armstrongceilings.com)

#### Weight; Pieces/Pack








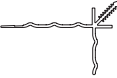
Panel weight – 27 lbs  
2 pieces/pack (Bulk packed)

**Armstrong®**  
CEILING & WALL SOLUTIONS


527

# WOODWORKS® WALLS FAMILY – Accessories

## ACCESSORIES – WOODWORKS® STANDARD WALL PANELS AND CHanneled STANDARD WALL PLANK


Item No. ♦	Description	Dimensions (Inches)	Color/Finish	Pcs/Ctn
 5855 ___	4" Base Molding	100"	NMP, NLC, NDC, BAP, BAN, MP, LC, DC, HG	Bulk
 5856 ___	6" Base Molding	100"	NMP, NLC, NDC, BAP, BAN, MP, LC, DC, HG	Bulk
 5857 _____	Finish Molding (direct-applied)	100" (08), 112" (09), or 122" (10)	MP, HG, LC, DC	Bulk
 5907 _____	1.875" Finish Molding (with furring strips)	100" (08), 112" (09), or 122" (10)	NMP, NLC, NDC, BAP, BAN	Bulk
 5867 _____	Inside Corner Molding	100" (08), 112" (09), or 122" (10)	NMP, NLC, NDC, BAP, BAN	Bulk
 5851 _____	Peak Corner (Solid Wood)	96" (08), 108" (09), or 118" (10)	MP, HG, LC, DC	Bulk
 5852 _____	Bullnose Corner (Solid Wood)	96" (08), 108" (09), or 118" (10)	MP, HG, LC, DC	Bulk
 5859 _____	Corner Installation Spline (Concealed)	96" (08), 108" (09), or 118" (10)	Plastic (X) or Aluminum (Y)	Bulk

## ACCESSORIES – WOODWORKS STANDARD WALL PANELS ONLY

Installation	Item No.	Description	Lengths (Inches)	Color/Finish	Material	Pcs/Ctn
	663910__	Wall Installation Spline (aluminum)	120"	Black (BL), Natural Anodized (NA)	Aluminum	1
	6408	Edge Banding for Wall Spline (PVC)	300"	See colors on page 520	–	1
	5672	Z-clip	2"	Aluminum	–	250
	5673	Z-clip Bar	72"	Aluminum	–	20

When specifying or ordering, include the appropriate finish suffixes.

## ACCESSORIES – CHanneled STANDARD WALL PLANK ONLY

Item No.	Description	Dimensions	Color	Pcs/Ctn
 5389	Channeled Clip	N/A	Black	250

## INFILL PANELS

Item No.	Description	Dimensions	Color	Pcs/Ctn
5479	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Beige - Matte	12
8200T10	1" Fiberglass Infill Panel	24 x 24 x 1"	Black - Gloss	12

♦ When specifying or ordering base molding or spline, include the appropriate 2- or 3-letter color suffix (e.g., 585508 **N M P**) When specifying or ordering other accessories, include the appropriate length suffix and finish/material suffixes. EXAMPLES: 5867 **Q 9 N D C** – 9' Inside Corner Molding in Natural Variations™ Dark Cherry; 5859 **Q 9 X** – 9' Corner Installation Spline in Plastic

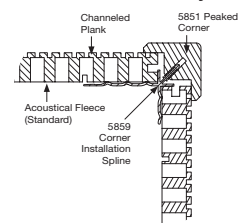
### COLORS

NV Maple (NMP)  
NV Light Cherry (NLC)  
NV Dark Cherry (NDC)  
Bamboo Patina (BAP)  
Bamboo Native (BAN)

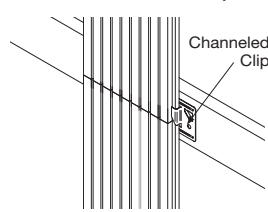
Ekos Maple (MP)  
Ekos Light Cherry (LC)  
Ekos Dark Cherry (DC)  
Ekos Mahogany (HG)

## INSTALLATION DETAILS

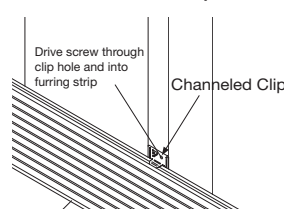
### Channeled Wall Plank and Corner Assembly



### Vertical Wall Plank Installation with Channeled Clip



### Horizontal Wall Plank Installation with Channeled Clip



### 6" WoodWorks® Base Molding







### WoodWorks Inside Corner





# SOUNDSOAK® & WOODWORKS® EKOS® WALLS FAMILY – Accessories

## ACCESSORIES – WOODWORKS® EKOS® WALL PANELS ONLY







Item No. ♦	Description	Lengths	Finishes	Material
 <b>5850J</b> _ _ _ _	Cap Accent Trim	96", 108", 120" (08) (09) (10)	NA (Natural Anodized) BL (Black Anodized)	Aluminum
 <b>5850K</b> _ _ _ _	Reveal Accent Trim	96", 108", 120" (08) (09) (10)	NA (Natural Anodized) BL (Black Anodized)	Aluminum
 <b>5858</b> _ _ _	Wall Installation Spline (concealed)	96", 108", 120" (08) (09) (10)	Plastic (X) or Aluminum (Y)	Plastic or Aluminum
 <b>5860</b> _ _ <b>X</b>	Wall Bead Installation Spline†	96", 108", 120" (08) (09) (10)	Black Plastic	Plastic

† This accessory should be used when Decorative Accent Trims are not selected.

NOTE: When a decorative accent trim is selected, you must also choose a wall installation spline.

♦ When specifying or ordering, insert the appropriate length suffix and finish suffix. EXAMPLE: 5850J 0 8 NA 96" cap accent trim in Natural Anodized.

## CHAIR RAIL ACCESSORIES – SOUNDSOAK® STANDARD AND WOODWORKS® EKOS® WALL PANELS

Item No. ♦	Description	Lengths	Colors	Substrate
 <b>5861</b> _ _	Mounting Rail	100"	MP, LC, DC, HG, XX	Solid Wood
 <b>5862</b> _ _	Rail Spacer for Soundsoak 85	100"	XX	Solid Wood
 <b>5863</b> _ _	Rail Insert	100"	MP, LC, DC, HG, BL, XX	Solid Wood
 <b>5963NA</b>	Rail Insert – Aluminum Finish	96"	Natural Anodized (NA)	Solid Wood and Aluminum
 <b>5864</b> _ _	Rail Cap	100"	MP, LC, DC, HG, XX	Solid Wood
 <b>5865</b> _ _	Extended Rail Cap for Soundsoak 85	100"	MP, LC, DC, HG, XX	Solid Wood
 <b>5866</b> _ _	Easel Ledge	100"	MP, LC, DC, HG, XX	Solid Wood





♦ Insert 2-letter color suffix when specifying or ordering. EXAMPLE: 5861 H G – Mounting Rail in Mahogany

NOTE: Unfinished wood can be field-painted.

## CHAIR RAIL ACCESSORY COLORS



## ACCESSORIES – SOUNDSOAK STANDARD ONLY

Item No. ♦	Description	Lengths	Finishes
 <b>3856</b> _ _ _ _	Impact Corner	120"	See page 311
 <b>4062</b> _ _ *	1" J-Molding	120"	BL, GW, FG, LT, SA
 <b>4064</b> _ _ *	3/4" J-Molding	120"	BL, GW, FG, LT, SA
 <b>4065A</b>	3/4" Low-Profile J-Molding	120"	BL

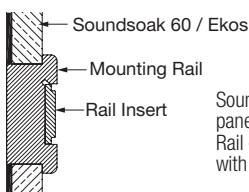
♦ Insert 4-letter suffix using surface type and color suffixes from page 311. EXAMPLE: 3856 L D Q B – Impact Corner Lido™ Oak Bluffs

\* Insert 2-letter color suffix. EXAMPLE: 4062 B L – 1" J-Molding in Black

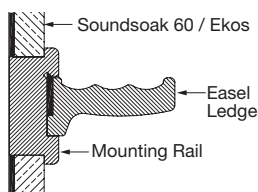
## J-MOLDING COLORS



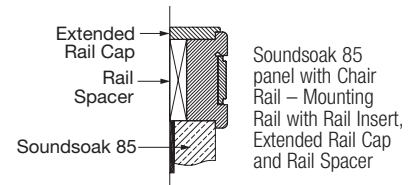
## INSTALLATION DETAILS



Soundsoak 60 panel with Chair Rail – Mounting with Rail Insert



Soundsoak 60 panel with Chair Rail – Mounting Rail with Easel Ledge (field-painted)



Soundsoak 85 panel with Chair Rail – Mounting Rail with Rail Insert, Extended Rail Cap and Rail Spacer

# CUSTOM WALL SYSTEMS

## METAL WALLS

you inspire™  
solutions center

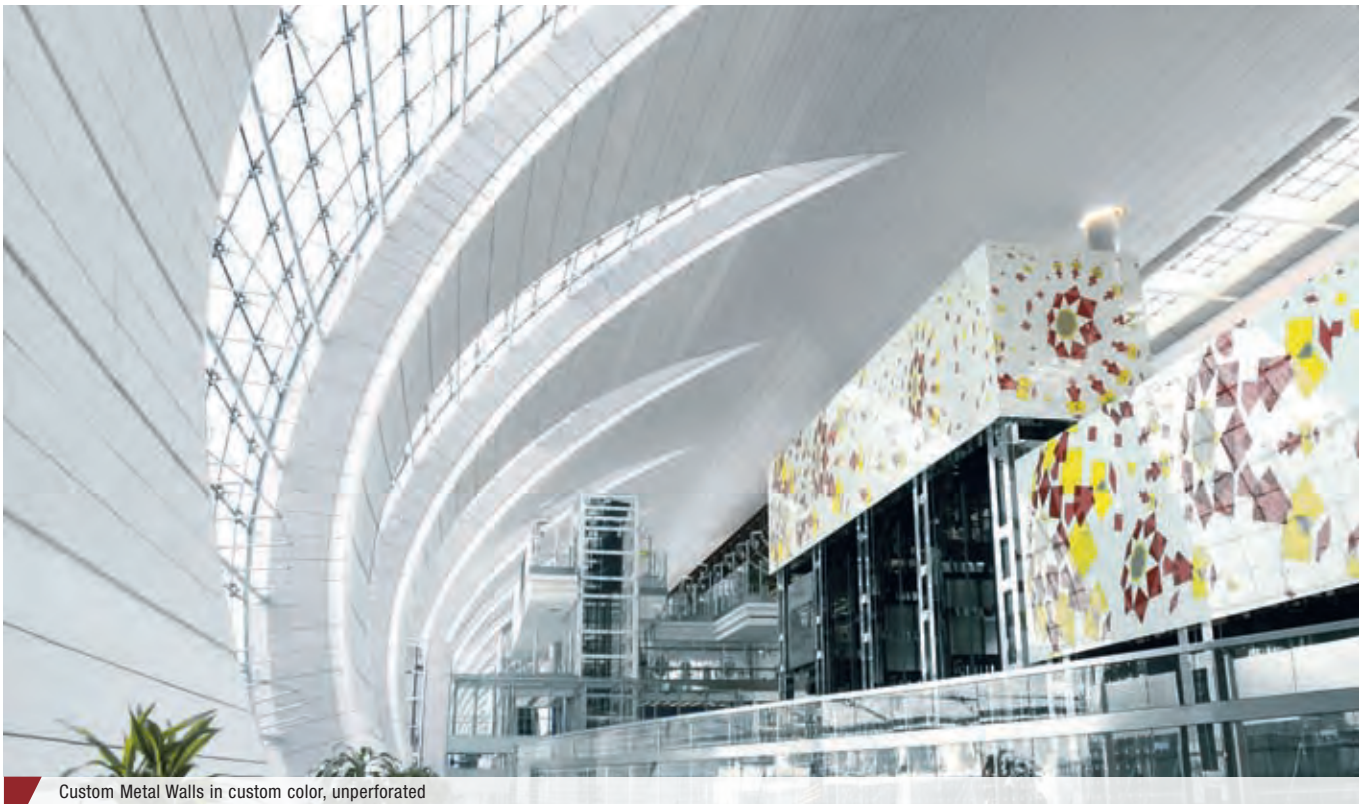
helping to bring your one-of-a-kind ideas to life

### KEY SELECTION ATTRIBUTES

- Custom colors and perforations available
- Durable – Washable, Scrubbable, Soil-resistant
- Coordinate with MetalWorks™ ceilings
- Perforated panel with acoustical backing improves sound quality and reduces noise within a space



MetalWorks™ Torsion Spring Custom in custom colors



Custom Metal Walls in custom color, unperforated

CUSTOM WALLS

# CUSTOM WALL SYSTEMS WOODWORKS WALLS

you inspire™  
solutions center

helping to bring your one-of-a-kind ideas to life



WoodWorks® Channeled Custom Walls in Light Cherry

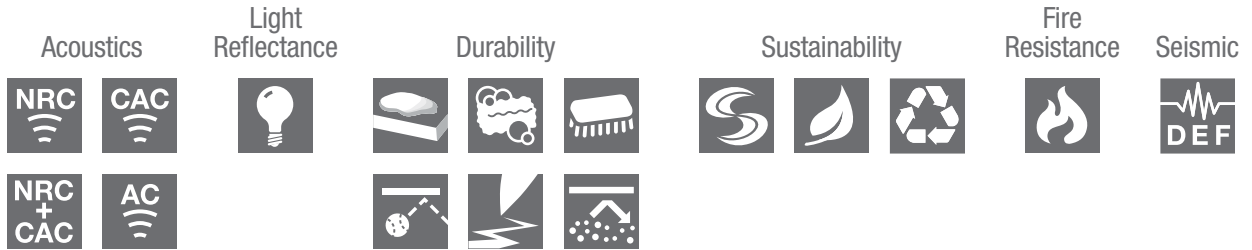
## KEY SELECTION ATTRIBUTES

- Custom finishes and perforations available
- FSC® certified options available
- Coordinate with WoodWorks® ceilings
- Perforated panel with acoustical backing improves sound quality and reduces noise within a space



WoodWorks Custom Ceiling System unperforated in custom Red Oak

No ceiling solutions partner has the diligence behind a broad portfolio of options like we do. Here's a wealth of reference information on the "what" behind our products. It's organized around our icons, used throughout this catalog, to help you find key attributes needed for your next ceiling specification.



## ARMSTRONG CEILING & WALLS GREENPRINT

- Design and manufacture innovative products with reduced environmental and social impacts.
- Decrease our operational footprint in the areas of energy, water, and waste.
- Be a responsible partner in the communities where we operate.

[armstrongceilings.com](http://armstrongceilings.com)



**Armstrong®**  
CEILING & WALL SOLUTIONS

*Corporate Social Responsibility*

# CREATING BETTER SPACES

People are at the heart of every interior space. Your choice of ceiling materials can have a positive influence and contribute to the well-being and comfort of people who work, play, learn, and heal in those spaces. With our portfolio, you're able to meet the needs of demanding interiors and:

## Design With Healthy Materials

The Sustain® portfolio is free of chemicals of concern, and meets the most stringent industry sustainability standards.

## Address Air Quality Concerns

- No Red List Chemicals of concern per the Living Building Challenge™ Red List 3.0
- Meets VOC emission standards per California Department of Public Health (CDPH) low emissions standards
- Has GREENGUARD Gold Certification for low Chemical Emissions – UL.COM/GG

## Create Quiet

Total Acoustics® performance can help people concentrate, collaborate, and keep private conversations private

- High sound absorption (NRC) to decrease noise, reduce stress, and create more effective, quieter spaces
- Effective sound blocking (CAC), with a CAC of 35 or higher to ensure confidential speech privacy

## Increase Light

- Deliver high light reflectance to brighten spaces and maximize light
- Enhance visual comfort by reducing eye strain and glare
- Introduce serenity or energy into a space to meet your design intent

## Inspire

Our broad portfolio includes everything from traditional wall-to-wall ceiling solutions and new DESIGNFlex™ shapes and sizes, to exposed structure solutions. This includes some unseen, direct-attach options or Spotlight™ acoustics with clouds, canopies, baffles and Blades™ panels.



**SUSTAIN®**  
High Performance  
Sustainable  
Ceiling Systems



**TOTAL ACOUSTICS®**  
Sound Absorption (NRC)  
+ Sound Blocking (CAC)



**DESIGNFlex™**  
A New World of Choice  
for Ceiling Systems

## Sustainability Information in This Catalog on Every Product Page

**ULTIMA® Health Zone™ High NRC**  
Square Lay-in  
fine texture

**GREENGUARD Gold Certified** (details below)

**Declare™** Living Building Challenge Compliant

**SUSTAIN®** High Performance Sustainable Ceiling Systems

**LEED** UP TO 76% RECYCLED CONTENT

Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

Edge Profile	Susp. Dwg. Pgs. 474-478	Item No.	Dimensions (Inches)
15/16" Square Lay-in	1, 6	1445	24 x 24 x 1"

NRC	CAC	Total Acoustics	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Water Repel	Wash	Scrub	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr. Warranty	NRC	CAC
0.80	35	BEST	Class A	0.85	•	•	•	•	•	•	•	•	•	•	•	•	•	•

The top right area of each product page recaps key sustainability criteria, including applicable sustainable certifications and specific LEED® credit criteria.

GREENGUARD Gold Certification

Declare™ label disclosing product ingredients is available for this family.

Sustain® This product family meets the most stringent sustainability standards in the industry.

Recycled content range. Calculate for specific items using our GreenGenie online calculator.

Environmental & Health Product Declaration availability noted here.

Most Armstrong® product families offer high recycled content choices (greater than 50% total recycled content).

## CREATING BETTER SPACES

### Sustainable Ceiling Systems

- A range of materials, including integrated transitions and trims
- A combination of aesthetics and top-of-the-line performance without compromise
- New DESIGNFlex™ ceiling systems offer shapes, sizes and colors meeting sustainability criteria

#### Here's How Sustain® Ceiling Systems Contribute to Better Spaces:



- Are free of Red List Chemicals per the Living Building Challenge™ 3.0
- Have Health Product Declarations (HPDs)
- Have Environmental Product Declarations (EPDs)
- Have Declare™ labels
- Meet California Department of Public Health (CDPH) low emissions standards
- Contribute to:
  - LEED v4 (including New Materials and Resources credits) (see details, Pgs. 540-541)
  - Living Building Challenge Standards (see details, Pgs. 542-543)
  - WELL Building Standard (see details, Pgs. 544-545)

[armstrongceilings.com/sustain](http://armstrongceilings.com/sustain)

### Material Transparency



#### GreenGuard Gold Certification

GREENGUARD Certification ensures that a product has met some of the world's most rigorous and comprehensive standards for low emissions of volatile organic compounds (VOCs) into indoor air.

Armstrong mineral fiber and plant-based fiberglass ceiling products have been UL® certified and have received the GREENGUARD Gold certification.

Armstrong low-emitting ceilings are third-party certified by UL® Environment and compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED®, WELL Living Building Challenge, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.



#### Environmental Product Declarations (EPDs)

We're committed to helping you reduce the environmental impact of the buildings you create... from product design and raw material selection, to how products are made and delivered. An Environmental Product Declaration (EPD) reports on

the environmental impacts of our products in the areas of energy, carbon, water, and other categories from our product Life Cycle Assessments (LCA). Our EPDs are third-party verified by UL® Environment.



#### Health Product Declarations (HPDs)

The HPD objectively provides the critical information needed to support accurate supply chain disclosure and informed decisions by building designers, specifiers, owners, and users. The Health Product Declaration™ format was developed by the Health Product Declaration Collaborative™ which is composed of product manufacturers and building experts.

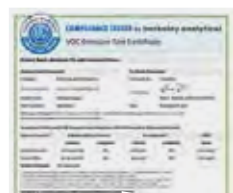
We're committed to helping architects, designers, and end users make wiser choices about materials. A Health Product Declaration™ (HPD) is a standard format for reporting product ingredients and associated health information.



#### Armstrong Ceilings is the first ceiling manufacturer committed to Declare™

Declare™ is a 'nutrition-type' label developed by International Living Future Institute for manufactured products used in indoor environments.

The Declare™ label provides a clear, informative method to disclose product ingredients and is third-party verified by International Living Future Institute™.



#### ClearChem Declaration

ClearChem Declarations are specifically designed for architects, engineers and other building professionals who need documentation for indoor environmental quality credits in green, high-performance building projects, such as those pursuing certification under USGBC LEED v4.

Armstrong metal and Tectum® ceilings are compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED®, WELL Living Building Challenge, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

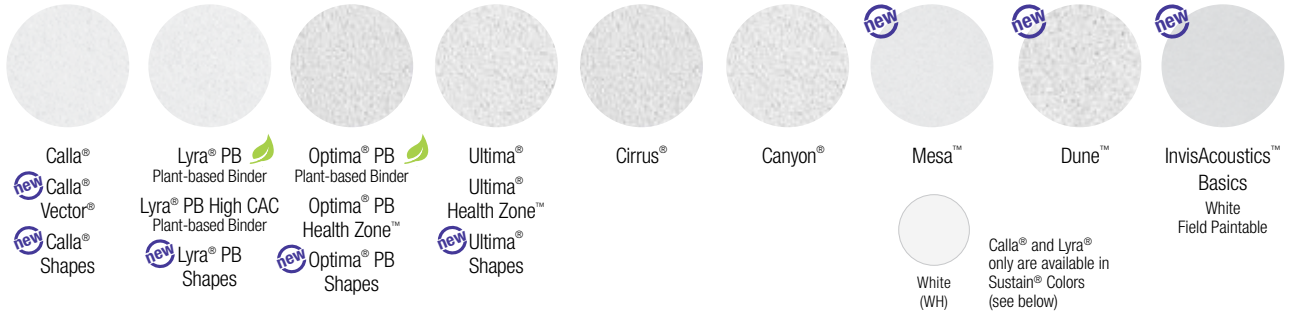


# It's Simple to Find and Specify Sustainable Ceiling Systems – Just Look for the Sustain® Icon.

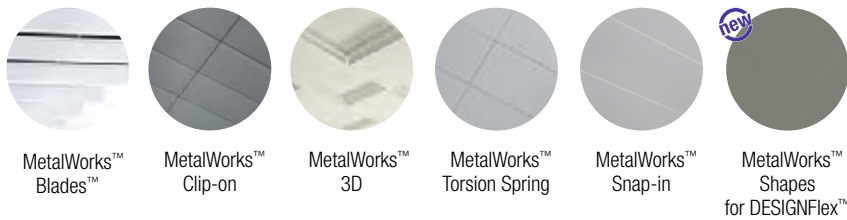
Look for this icon identifying pages with Sustain® items and specify with confidence.



## Mineral Fiber/Fiberglass Panels – over 300 items

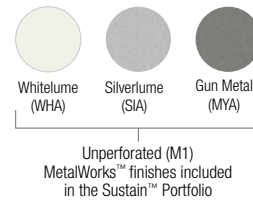


## MetalWorks™ Panels – over 220 items



### METALWORKS COLOR SELECTION

Due to printing limitations, shade may vary from actual product.

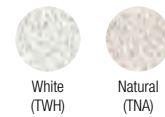


## Tectum® 1" Panels – 7 items

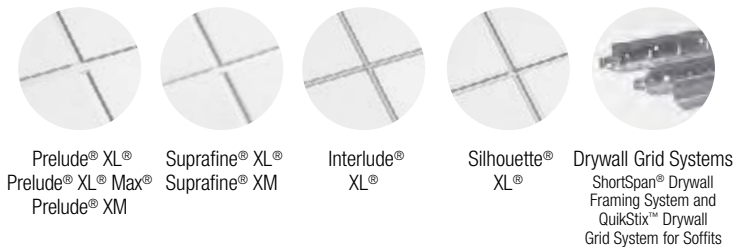


### TECTUM COLOR SELECTION

Due to printing limitations, shade may vary from actual product.



## Suspension Systems – over 220 items



### SUSTAIN COLORS FOR CALLA®, LYRA® PB AND SUSPENSION SYSTEMS

Due to printing limitations, shade may vary from actual product.



## Trim & Transitions – over 285 items



### TRIM & TRANSITIONS COLOR SELECTION

Due to printing limitations, shade may vary from actual product.



## CREATING BETTER SPACES Increasing Building Efficiency

When designing an energy-efficient building, people tend to focus on everything from insulation to window placement, but in fact, ceiling systems can also play a role in increasing building efficiency. Here's a look at ceiling contributions for building efficiency.

### Light-Reflectant Ceilings

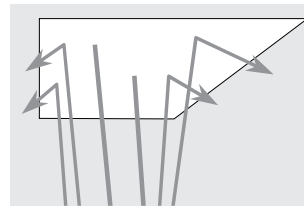
#### High light-reflectant ceiling\* benefits can include:

- Total building energy savings up to 11%
  - 23% reduction in lighting energy at same light level (fewer indirect lighting fixtures and lamp/ballast replacements)
  - 7% savings in cooling system energy
- Increased occupant satisfaction and productivity
- Ability to contribute to LEED® credits
- More effective use of energy budgets\*\*

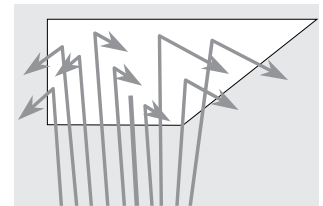
[armstrongceilings.com/lightreflectance](http://armstrongceilings.com/lightreflectance)

\* A high light-reflectance ceiling has LR 0.83 or greater per ASTM E1477-98 as referred to in ASTM E1264-98  
 \*\* Based on standards like those developed by the American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) and the International Energy Conservation Code (IECC) currently being adopted across the U.S.

This icon is used throughout this catalog to identify Armstrong® products with high light-reflectance properties.



Typical acoustical ceiling (LR 0.75) reflects just 75% of the light striking its surface.



High LR ceilings are engineered to reflect up to 90% of the light striking their surface.

### Flexibility & Integration

#### Pre-engineered Solutions

Armstrong® ceiling systems are pre-engineered with attention to detail to control the finished aesthetic of the ceiling and achieve your design intent. On every project, you will encounter common conditions that Armstrong pre-engineered solutions can enable you to tackle easily – saving substantial time and labor. In our Integrated Solutions Section of this catalog (Pages 398-443), we present our solutions and compare them to traditional construction methods, including the benefits to the design and build process.

[armstrongceilings.com/integrationsolutions](http://armstrongceilings.com/integrationsolutions)

#### Integrated Lighting

We understand the pain points of trying to integrate lighting into the ceiling plane, while being able to specify and maintain the crisp, clean details you envision in your design.

Armstrong Ceilings has a complete assortment of integrated linear, cover and downlighting solutions to help create brilliant interior spaces with consistent fit and finish using your favorite Armstrong ceiling panels – including our new DESIGNFlex™ Shapes panels.

[armstrongceilings.com/lighting](http://armstrongceilings.com/lighting)

#### Our Integrated Solution Partners

Our partners provide pre-engineered, pre-fitted fixtures and components that integrate, work with, or compliment Armstrong ceiling systems. Our mission is to make it easier for architect and designers to find and specify compatible high-performance components for their ceiling layouts with confidence.

[armstrongceilings.com/partners](http://armstrongceilings.com/partners)

#### Integrated Solution Partners

##### LIGHTING & FIXTURES

**ALW**

**axis**

**ARON**

**BACKLIGHT**

**FOCAL POINT**

**i2Systems**  
ADVANCED LED LIGHTING

**JLC • TECH**

Litecontrol

**Sky Factory**

**SPECTRUM**  
LIGHTING INC.

**USAI**  
Lighting

**vode**

**XAL**

##### SOUND MASKING

**LogiSon**  
ACOUSTIC NETWORK

##### AIR DIFFUSERS

**PRICE**

##### HEATING & COOLING

**PRICE**

##### SPRINKLER CONNECTIONS

**FLEXHEAD**

##### SHADES

**LUTRON**  
Shading Solutions



## Indoor Air Quality

When it comes to sustainability, the environment inside the building is just as important as what's happening outside. Increasing attention is being given to the quality of the indoor environment and the presence of Volatile Organic Compounds (VOCs).

Armstrong® low-emitting ceilings are third-party certified by UL® Environment Certified product and compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED®, WELL Living Building Challenge, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

### Healthcare and Clean Rooms

Armstrong® ceilings can meet stringent requirements for air cleanliness in healthcare and clean room environments. Select products meet ISO Class 5 in accordance with ISO 14644-1. This corresponds with Class 100 of U.S. Federal Standard 209E.

### AirGuard™ Coating

AirGuard™ coating for Ultima® ceiling panels is a revolutionary breakthrough that actively removes formaldehyde in buildings. When applied to the back of ceiling panels, the AirGuard coating (a UL® Environment-Certified Product) converts the formaldehyde present in interior spaces into an inert substance permanently captured by the ceiling.



Product testing and measurement followed: ASTM procedures (ASTM D 5116-10, D 5197-03, and ISO Standards ISO-16000-23).

[armstrongceilings.com/airguard](http://armstrongceilings.com/airguard)

For further information, download our VOC Emissions certifications from the Transparency web page or Resources Section of each product page on our web site.

## Recycling Ceilings

Recycling reduces waste, saves money, and is a smart alternative to dwindling landfill capacity. When ceilings are recycled by Armstrong Ceilings, higher post-consumer recycled content (Ceiling-to-Ceiling™) products are created. Look for the Closed Loop Recycled Content icon (show below) to specify items from this 360° process.

- 1 Register
- 2 Get a Quote
- 3 Recycle

**For Details:** Register online at [armstrongceilings.com/recycling](http://armstrongceilings.com/recycling) or call the Armstrong Ceilings Recycling Center, 1-877-276-7876 Option 4.

### The First Program in the Industry: Over 20 Years of Experience

In 1998, Armstrong Ceilings introduced the industry's first ceiling recycling program. To date, we have recycled more than 195 million square feet of old ceiling material (1,073,000 tons of virgin raw material) and diverted that waste from landfills.



**Look for this icon** identifying products that are recyclable through our Armstrong Ceiling Recycling Program



[armstrongceilings.com/recycle](http://armstrongceilings.com/recycle)

## Want to Specify Ceilings Made From Recycled Materials?

The reclaimed ceilings that are returned through our recycling program are upcycled into new ceilings with a high level of post-consumer recycled content. Look for the Ceiling-2-Ceiling™ icon that identifies these products.



**Look for this icon** identifying products with Ceiling-2-Ceiling recycled content



[armstrongceilings.com/C2C](http://armstrongceilings.com/C2C)

### ONLINE TOOLS

#### Recycling/Diversion Savings Calculator

The Armstrong Ceilings Recycling/Diversion Savings Calculator lets you track your diversion and recycling savings online. Print, email, or download to show your savings!

#### Environmental Impact Calculator

Our Environmental Impact Calculator takes your square footage estimate of recycled panels and calculates the savings of greenhouse gases, waste diverted from landfills, virgin raw materials, energy, and potable water saved.

# LEED® v4 OVERVIEW

## How Armstrong Ceilings and Walls Can Contribute to LEED v4

24/7 access to LEED® information and documentation you need in the design or submittal process for any Armstrong® Ceiling and Wall System



Theme	Credit	LEED Credit	Points	Armstrong® Ceilings and Walls Contribution
<b>Recycling Program</b>	MRp; MRc	<b>Construction Waste Management</b> Now a Prerequisite – ID at least 5 materials	MRp Required MRc 1-2	<p>ARMSTRONG® CEILING RECYCLING PROGRAM</p> <p><b>MRp2:</b> Add the <u>Armstrong Ceiling Recycling Program</u> to the Waste Management Plan to provide a solution to divert materials from the waste stream, increasing diversion percentage. Ceilings qualify as 1 nonstructural material. Available throughout the U.S. and Canada.</p> <p><b>MRc6, Option 1:</b> Ceilings qualify as a material stream to meet 50-75% diversion.</p> <p><b>MRc6, Option 2: Reduction in Total Waste:</b> Specify products with minimal waste; show ceiling waste reduction over drywall installations.</p>
<b>Regional Materials</b>	MR credits	<b>Regional Materials</b> (Extracted, manufactured and purchased within 100 miles)	200% base contributing cost	<p>ARMSTRONG CEILING MANUFACTURING LOCATIONS</p> <p>Armstrong has the largest number of ceiling and suspension plant locations in North America. Use the <u>Armstrong Ceilings LEED® Calculator</u> to calculate mileage for manufacture and extraction locations; Product meeting 100 mile criteria is valued at 200% of base cost.</p>
<b>Life Cycle Impacts &amp; Environmental Product Declarations</b>	MRc BD&C MRc ID&C	<b>Building Life Cycle Reduction Interiors Life Cycle Impact Reduction</b>	BD&C – 3 ID&C – 1-3	<p>ARMSTRONG® PRODUCT EPDs</p> <p><b>BD&amp;C, Option 4:</b> Use Armstrong third party-certified <u>Product EPD</u> or Embodied Energy (EE) for Whole Building LCA Calculations.</p> <p>ARMSTRONG® CEILING-2-CEILING™ PRODUCTS</p> <p><b>ID&amp;C, Option 1 – Reuse of nonstructural elements:</b> Specify Armstrong® Ceiling-2-Ceiling™ products – new ceilings made of reclaimed ceilings that are returned to our recycling program with a high level of post-consumer recycled content.</p> <p>DC FLEXZONE™ SUSPENSION SYSTEMS</p> <p><b>ID&amp;C, Option 3 – Design for Flexibility:</b> Install <u>DC FlexZone™</u> suspension systems to distribute safe, low voltage direct current (DC) power and improve the flexibility and reuse of interior spaces, <a href="http://armstrongceilings.com/dcflexzone">armstrongceilings.com/dcflexzone</a>.</p> <p>ARMSTRONG® ACCESSIBLE CEILING SYSTEMS</p> <p><b>ID&amp;C, Option 3 – Design for Flexibility:</b> Specify any of a wide range of both upward and downward accessible Armstrong® ceilings, in mineral fiber, fiberglass, metal and wood substrates.</p> <p>All Sustain® products contribute to this credit.</p>
<b>Life Cycle Impacts &amp; Environmental Product Declarations</b>	MRc BD&C MRc ID&C	<b>Building Disclosure and Optimization – Environmental Product Declaration</b>	BD&C – 1 ID&C – 1-2	<p>ARMSTRONG® PRODUCT EPDs</p> <p><b>BD&amp;C, Option 1:</b> Use Armstrong type III <u>Product EPDs</u>.</p> <p><b>ID&amp;C, Option 2:</b> Use Armstrong EPD's which show reduction in the total ceiling system and suspension system impact.</p>

REFERENCE – CREATING BETTER SPACES

# LEED® v4 OVERVIEW

Theme	Credit	LEED Credit	Points	Armstrong® Ceilings and Walls Contribution
Corporate Sustainability and Raw Material Sourcing	MRc BD&C MRc ID&C	Building Disclosure and Optimization – Sourcing of Raw Materials	BD&C – 1-2 ID&C – 1-2	<p>ARMSTRONG COMMITMENT TO SUSTAINABILITY <b>BD&amp;C, Option 1:</b> Use the Armstrong self-declared sustainability report (1/2 value) located on our corporate website: <a href="http://www.armstrongceilings.com/sustain">www.armstrongceilings.com/sustain</a></p> <p>ARMSTRONG RECYCLING PROGRAM <b>BD&amp;C, Option 2 – Leadership Extraction Practices: Extended Producer Responsibility:</b> Add the Armstrong Ceiling Recycling Program to the Waste Management Plan to provide a solution to divert materials from the waste stream, increasing diversion percentage.</p> <p>ARMSTRONG® BIOBASED PRODUCTS <b>BD&amp;C, Option 2 – Leadership Extraction Practices: Biobased Products:</b> Specify Armstrong® mineral fiber panels that contain <u>plant-based binders</u>, biobased alternatives to petroleum-based binders.</p> <p>ARMSTRONG® WOOD CEILINGS &amp; WALLS <b>BD&amp;C, Option 2 – Leadership Extraction Practices: Wood:</b> Specify Armstrong® FSC®-certified (92% mixed) composite wood ceilings and walls.</p> <p>ARMSTRONG® HIGH RECYCLED CONTENT CEILINGS <b>BD&amp;C, Option 2 – Leadership Extraction Practices: Recycled Content:</b> Specify Armstrong® mineral fiber, fiberglass and wood ceilings which have a recycled content from 50%-95%, in addition to high recycled suspension systems, drywall grid and framing systems.</p> <p>All Sustain® products contribute to this credit.</p>
Material Ingredient Disclosure	MRc BD&C MRc ID&C	Building Disclosure and Optimization – Material Ingredients	BD&C – 1-2 ID&C – 1-2	<p>HEALTH PRODUCT DECLARATIONS &amp; DECLARE™ <b>BD&amp;C, Option 1: Material Ingredient Reporting:</b> Health Product Declarations and Declare™ labels qualify for Manufacturer Inventory (1 Pt).</p> <p>All Sustain® products contribute to this credit.</p>
VOC Emissions	EQc	Low Emitting Materials	BD&C – 1-3 ID&C – 1-3	<p>ARMSTRONG® LOW OR NO-ADDED FORMALDEHYDE CEILINGS All Armstrong® mineral fiber and Optima® PB acoustical ceilings meet <u>General Emissions Evaluation per the CDPH standard; v1.1 2010.</u></p> <p>All Armstrong® WoodWorks® ceilings (except WoodWorks Channeled and solid wood options) meet CARB. ULEF options available.</p> <p>All Sustain® products contribute to this credit.</p>
Lighting	EQc	Interior Lighting – Lighting Quality	BD&C – 1 ID&C – 1	<p>ARMSTRONG® HIGH LIGHT-REFLECTANT CEILINGS AND WALLS <b>BD&amp;C, Option 2:</b> Choose Armstrong® Hi-LR ceilings (LR.85) or walls (.60) to aid in extending daylighting into the space.</p> <p><b>BD&amp;C, Option 2:</b> Specify Armstrong® TechZone® Ceiling Systems lighting partners and LED lighting as another option to satisfy LEED® criteria.</p>
Acoustics	EQc	Acoustic Performance (now all Rating Systems)	BD&C – 2 ID&C – 2	<p>ARMSTRONG® ACOUSTIC CEILINGS &amp; WALLS <b>BD&amp;C – 2, Option 2:</b> Choose Armstrong® wall panels to add to drywall for a higher combined STC value, significantly reducing <u>Sound Transmission.</u></p> <p><b>BD&amp;C – 2, Option 2:</b> Armstrong® acoustic ceilings absorb sound, contributing to the reduction of <u>Reverberation Time</u> and increased speech intelligibility. Schools must meet ANSI Standard S12-60, contributing to the reduction of reverberation time.</p> <p>Look for Total Acoustics® products.</p>



# WELL BUILDING STANDARD

## How Armstrong® Ceilings and Wall Solutions Can Contribute to The Well Building Standard

AIR			The WELL Building Standard™ (WELL) establishes requirements in buildings that promote clean air and reduce or minimize the sources of indoor air pollution.
FEATURE	WELL CONCEPT	COMPLIANCE	ARMSTRONG® CEILINGS AND WALLS CONTRIBUTION
01	Air Quality Standards	P	Intent: To ensure a basic level of high indoor air quality. To enhance indoor air quality by using ceiling and wall products with low or no added formaldehyde. Choose products from the Armstrong® SUSTAIN portfolio. This entire portfolio contributes to better spaces.
04	VOC Reduction	P	Intent: To minimize the effect of VOCs from building materials on indoor air quality. Armstrong® ceilings and walls meet California Dept of Public Health (CDPH) Standard Method v1.1-2010 and VOC Certificates of Compliance as proof of meeting this standard.
06	Microbe and Mold Control	P	Intent: To reduce mold and bacteria growth within buildings. Armstrong® ceiling products feature BioBlock® performance to resist the growth of mold and mildew. BioBlock Plus performance resists growth of mold and mildew and odor and stain causing bacterial growth. Review our performance selector to choose the right ceiling for your space.
07	Construction Pollution Management – VOC Absorption Management	P	Intent: To minimize the introduction of construction related pollutants into indoor air and protect building products from degradation. Armstrong® HumiGuard® protection on ceiling panels are recommended for humidity and sag resistance. Ceilings with HumiGuard protection can be installed prior to the building being enclosed.
12	Moisture Management	P	Intent: To limit the potential for bacteria and mold growth within buildings from water infiltration and condensation. Armstrong® HumiGuard protection on ceiling panels are recommended for humidity and sag resistance. Ceilings with HumiGuard protection can be installed prior to the building being enclosed. See above performance under Feature 06.
16	Humidity Control	0	Intent: To limit the growth of pathogens, reduce off-gassing, and maintain thermal comfort by providing the appropriate levels of humidity. Armstrong® HumiGuard® protection on ceiling panels are recommended for humidity and sag resistance. Ceilings with HumiGuard® protection can be installed prior to the building being enclosed. SUSTAIN® ceilings contain no added formaldehyde so there is no concern of excess emissions of formaldehyde.
17	Direct Source Ventilation	0	Intent: To limit the growth of pathogens, reduce off-gassing, and maintain thermal comfort by providing the appropriate levels of humidity. Armstrong® SUSTAIN® ceilings are free of any chemicals of concern (per LBC Red List 3.0) and contribute to better spaces.
18	Air Quality Monitoring and Feedback	0	Intent: To monitor and effectively remediate any indoor air quality issues. Armstrong® SUSTAIN® ceilings are free of any chemicals of concern (per LBC Red List 3.0) eliminating exposure risks.
25	Toxic Material Reduction	0	Intent: To minimize the impact of hazardous building material chemicals on indoor air quality and protect the health of manufacturing and maintenance workers. Armstrong® SUSTAIN® ceilings are free of any chemicals of concern (per LBC Red List 3.0) eliminating exposure risks. None of the chemicals listed in the feature are in any of the products in the SUSTAIN portfolio.
26	Enhanced Material Safety	0	Intent: To minimize the impact of hazardous building material chemicals on indoor air quality and protect the health of manufacturing and maintenance workers. Armstrong® SUSTAIN® ceilings are free of any chemicals of concern (per LBC Red List 3.0). All SUSTAIN products have Declare™ Living Building Challenge labels.
27	Antimicrobial Activity for Surfaces	0	Intent: To reduce occupant exposure to pathogens on high touch surfaces. Armstrong® ceilings are not a high touch surface. Armstrong Ceilings features a selection of ceilings that meet the surface requirements for non-porous surfaces and meet requirement for Clean Room designations up to ISO Class 5.
COMFORT			The WELL Building Standard™ (WELL) establishes requirements designed to create distraction-free, productive and comfortable indoor environments.
FEATURE	WELL CONCEPT	COMPLIANCE	ARMSTRONG® CEILINGS AND WALLS CONTRIBUTION
78	Reverberation Time	0	Intent: To help maintain comfortable sound levels by limiting reverberation times. Armstrong® ceilings and walls absorb sound, contributing to the reduction in reverberation time and increased speech intelligibility. Look for Total Acoustics® portfolio of products.
79	Sound Masking	0	Intent: To reduce acoustic disruptions and increase speech privacy by implementing sound masking in the building design. Armstrong® ceilings and walls absorb sound, contributing to the reduction in reverberation time and increased speech intelligibility. Look for Total Acoustics® portfolio of products.
80	Sound Reducing Surfaces	0	Intent: To reduce sound reverberation and maintain comfortable sound levels through absorptive ceilings and wall surfaces. Armstrong® ceilings and walls absorb sound, contributing to the reduction in reverberation time and increased speech intelligibility. Look for Total Acoustics® portfolio of products. Use the Armstrong® Reverberation Calculator to model your space. Select treatment materials for your space to meet the reverberation time recommendations and hear the difference, before and after!
81	Sound Barriers	0	Intent: To reduce sound transmission and acoustic disruptions through sound barriers. Total Acoustics® performance provides the ideal combination of sound absorption and sound blocking.

P = Preconditions  
0 = Optimizations

REFERENCE – CREATING BETTER SPACES

MIND			The WELL Building Standard™ (WELL) optimizes cognitive and emotional health through design, technology and treatment strategies.
FEATURE	WELL CONCEPT	COMPLIANCE	ARMSTRONG® CEILINGS AND WALLS CONTRIBUTION
85	Integrative Design	P	Intent: To facilitate a collaborative development process and ensure adherence to collective wellness goals. Part 2: Development. Armstrong Ceilings will provide information and documentation to support contribution to the Well concepts.
86	Post-Occupancy Surveys	P	Intent: To allow occupants to provide feedback to building owners and management, and further develop The Well Building Standard. The #1 area of dissatisfaction on the CBE occupant survey is Acoustics. Armstrong ceilings and wall products can contribute to the sound features in the Comfort section to make a more satisfied occupant.
87 99	Beauty and Design I and II	P	Intent: To create unique and culturally rich spaces. The Armstrong® ceilings and walls portfolio, with its unique designs, finishes, shapes, colors, can bring inspiration to any interior.
88 100	Biophilia I – Qualitative Biophilia II – Quantitative	O	Intent: To nurture the innate human nature connection within the project. Armstrong ceiling and walls solutions are available in many natural finishes, a large color palette, and with our Create!™ line you can design a unique ceiling visual and bring nature inside. Ceilings and walls contribute environmental elements; lighting and space layout.
89	Adaptable Spaces	O	Intent: To reduce distractions, mitigate stress and enable focused work by integrating a stimuli management program with in the building. Armstrong® ceilings and wall solutions contribute to Part 2 by providing sound absorption to increase speech privacy and to contribute to sound reduction to create quiet space for focus, contemplation and relaxation.
97	Material Transparency	O	Intent: To promote material transparency along the supply chain. Armstrong® ceiling and wall products in the Sustain® portfolio meet the requirements for both Part 1 and 2 of this feature. All products have HPDs, Declare™ labels, and EPDs. All documents are publically available on the Sustain web site for easy reference.
98	Organizational Transparency	O	Intent: To promote economic and social equity by requiring the adherence to and disclosure of fair and equitable business practices. Armstrong Ceilings and Walls has self-declared its commitment and initiatives supporting its sustainability journey on the corporate web site at www.armstrongceilings.com.
LIGHT			The WELL Building Standard™ (WELL) provides guidelines that minimize disruption to the body's circadian system, enhance productivity, support good sleep quality and provide appropriate visual acuity.
FEATURE	WELL CONCEPT	COMPLIANCE	ARMSTRONG® CEILINGS AND WALLS CONTRIBUTION
53	Visual Lighting Design	P	Intent: To support visual acuity by setting a threshold for adequate light levels and requiring luminance to be balanced within and across indoor spaces. Part 2: Brightness Management Strategies. Armstrong® high light reflectance ceilings enhance the benefits of indirect lighting by improving overall lighting uniformity, returning up to 90% of light back into the space, compares to 75% with standard ceilings. Refer to the performance selection to choose Armstrong High LR ceilings or walls. Specify Armstrong® TechZone® ceiling systems lighting partners and LED lighting as another option to meet this feature.
55	Electric Light Glare Control	P	Intent: To minimize direct and overhead glare by setting limits on the luminous intensity of luminaires. Armstrong high light reflectance ceilings enhance the benefits of indirect lighting by improving overall lighting uniformity, returning up to 90% of light back into the space, compares to 75% with standard ceilings; as well as reducing glare on interior surfaces. Specify Armstrong® TechZone® ceiling systems lighting partners and LED lighting as another option to meet this feature.
56	Solar Glare Control	O	Intent: To avoid glare from the sun by blocking or redirecting direct sunlight away from the occupants. Armstrong® high light reflectance ceilings can bring light further into the space utilizing it into the interior area. Armstrong AXIOM® shade pockets combined with Lutron® shades provide a pre-engineered perimeter solution to aid in controlling solar glare. This pre-engineered extruded aluminum building perimeter trim integrates with automated shades, at the same time tying into acoustical or drywall ceiling systems without any visible fasteners.
57	Low-Glare Workstation Design	O	Intent: To minimize visual discomfort by situating computer monitors in a way that avoids glare and luminance contrast. Armstrong® high light reflectance ceilings can bring light further into the space and diffuse light to aid in minimizing glare on computer screens.
59	Surface Design	O	Intent: To increase overall surface brightness through reflected light from room surfaces and avoiding glare. Armstrong® high light reflectance ceilings enhance the benefits of indirect lighting by improving overall lighting uniformity, returning up to 90% of light back into the space, compares to 75% with standard ceilings; as well as reducing glare on interior surfaces. Specify Armstrong® TechZone® ceiling systems lighting partners and LED lighting as another option to meet this feature.
60	Automated Shading and Dimming Controls	O	Intent: To prevent glare and encourage reliance on natural light through automated shading and dimming. Armstrong® AXIOM® shade pockets combined with Lutron® shades provide a pre-engineered perimeter solution to aid shading and dimming.
61	Right to Light	O	Intent: To promote exposure to daylight and views of varying distances by limited the distance workstations can be from a window or atrium. Armstrong® high light reflectance ceilings can redirect light further into the space.
62	Daylight Modeling	O	Intent: To support circadian and psychological health by setting thresholds for indoor sunlight exposure. Contribute to luminance levels in simulation models with Armstrong® high light reflectance ceilings. These ceilings deliver exceptionally balanced light diffusion – due to the consistent surface finish.
INNOVATION			
FEATURE	WELL CONCEPT	COMPLIANCE	ARMSTRONG® CEILINGS AND WALLS CONTRIBUTION
101-105	Innovation I	O	Intent: To promote continuous evolution of the Standard by enabling projects to propose a new feature that addresses health and wellness in a novel way. At Armstrong Ceilings, we are continuing to innovate ways to create better spaces. Check in with us to collaborate on ways to achieve this innovation feature.

P = Preconditions  
O = Optimizations

# LIVING BUILDING CHALLENGE<sup>SM</sup> 3.1

## How Armstrong Ceiling and Wall Solutions Contribute



The Living Building Challenge<sup>SM</sup> is the world's most rigorous proven performance standard for buildings. People from around the world use this regenerative design framework to create spaces that, like a flower, give more than they take.

Petal	Intent	Imperative No.	Imperative	Armstrong® Ceilings and Walls Contribution
<b>HEALTH &amp; HAPPINESS</b>	Creating environments that optimize physical and psychological health and well being	<b>07</b>	Civilized Environment	<p>Intent: Every regularly occupied space must have operable windows that provide access to fresh air and daylight.</p> <p>Armstrong: High light reflectance ceilings enhance the benefits of indirect lighting by improving overall lighting uniformity, returning up to 90% of light back into the space, compares to 75% with standard ceilings. Refer to the performance selection to choose Armstrong High LR ceilings or walls.</p> <p>Specify Armstrong® TechZone® ceiling systems lighting partners and LED lighting as another option to meet this petal.</p>
		<b>08</b>	Healthy Interior Environment	<p>Intent: To promote good indoor air quality, a project must create a Healthy Interior Environment Plan that explains how the project will achieve an exemplary indoor environment.</p> <p>Armstrong® ceilings and walls meet California Dept of Public Health (CDPH) Standard Method v1.1-2010 and VOC Certificates of Compliance are published as proof of meeting this standard. All mineral fiber and fiberglass ceilings and walls are UL Environment GreenGuard Gold certified. Our Plant based fiberglass ceilings, Optima® and Lyra®, are UL® GreenGuard Formaldehyde Free.</p>
		<b>09</b>	Biophilic Environment	<p>Intent: The project must be designed to include elements that nurture the innate human/nature connection.</p> <p>Armstrong Ceilings has a broad portfolio of design elements that contribute to enhancing a biophilic environment. From our natural wood looks in our WoodWorks® product line, to our unique look of our wood fiber, Tectum®. We also have the ability to add design in unique shapes, colors and graphics in our DESIGNFlex™ options.</p>
<b>MATERIALS</b>	Endorsing Products that are safe for all species through time	<b>10</b>	Red list	<p>Intent: The project cannot contain any following Red List materials or chemicals.</p> <p>Armstrong® SUSTAIN® ceilings are free of any red list materials or chemicals (per LBC Red List 3.0). All SUSTAIN® products have Declare Living Building Challenge labels.</p>
		<b>11</b>	Embodied Carbon Footprint	<p>Intent: The project must account for the total embodied carbon (tCO2e) impact from its construction through a one-time carbon offset from an approved carbon offset provider.</p> <p>Use Armstrong® third party-certified Product EPD or Embodied Energy (EE) for Embodied Carbon Footprint calculations.</p>

# LIVING BUILDING CHALLENGE<sup>SM</sup> 3.1

Petal	Intent	Imperative No.	Imperative	Armstrong <sup>®</sup> Ceilings and Walls Contribution
<b>MATERIALS (cont.)</b>	Endorsing Products that are safe for all species through time	<b>12</b>	Responsible Industry	<p>Intent: The project must advocate for the creation and adoption of third-party certified standards for sustainable resource extraction and fair labor practices.</p> <p>All projects must use, at a minimum, one Declare<sup>SM</sup> product for every 500 square meters of gross building area.</p> <p>All wood must be certified to Forest Stewardship Council (FSC)</p> <p>Armstrong<sup>®</sup> ceiling and wall products in the SUSTAIN<sup>®</sup> portfolio meet the requirements for both Part 1 and 2 of this feature. All products have HPDs, Declare<sup>SM</sup> Labels, and EPDs. All documents are publically available on the ILFI and Armstrong Sustain web site for easy reference.</p> <p>Wood products have FSC options available.</p>
		<b>13</b>	Living Economy Sourcing	<p>Intent: The project must incorporate place-based solutions and contribute to the expansion of a regional economy rooted in sustainable practices, products, and services.</p> <p>Armstrong Ceilings has the largest number of ceiling and suspension plant locations in North America. Contact Armstrong Techline to obtain the manufacture and extraction locations for the products on your project.</p>
		<b>14</b>	Net Positive Waste	<p>Intent: The project team must strive to reduce or eliminate the production of waste during design, construction, operation, and end of life in order to conserve natural resources and to find ways to integrate waste back into either an industrial loop or a natural nutrient loop.</p> <p>The Armstrong<sup>®</sup> Ceiling Recycling Program diverts ceilings from renovation projects in a closed loop process back to the Armstrong plant to be upcycled into new ceilings. Add the Armstrong Ceiling Recycling Program to the Waste Management Plan to provide a solution to divert materials from the waste stream, increasing diversion percentage. Our program is available throughout the U.S. and Canada. Acoustical ceilings are a flexible solution with minimal waste.</p>
<b>BEAUTY</b>	Celebrating design that uplifts the human spirit	<b>19</b>	Beauty & Spirit	<p>Intent: The project must meaningfully integrate public art and contain design features intended solely for human delight and the celebration of culture, spirit, and place appropriate to the project's function.</p> <p>Armstrong<sup>®</sup> ceiling and walls solutions are available in many natural finishes, a large color palette, and exciting designs. With our Create!<sup>®</sup> line you can design a unique ceiling visual and bring nature inside. Ceilings and walls contribute interesting environmental elements; lighting and enhance space layout.</p>
		<b>20</b>	Inspiration & Education	<p>Intent: Educational materials about the operation and performance of the project must be provided to the public to share successful solutions and to motivate others to make change.</p> <p>Armstrong Ceilings is happy to be part of case studies of Living Building Challenge projects. We can provide product photography, product details and Declare<sup>SM</sup> documentation to enhance the inspiration and education.</p>



Look for this icon identifying product pages with items having Total Acoustics® performance

# CREATING BETTER SPACES

## Here's How Total Acoustics® Ceiling Systems Contribute to Better Spaces:

- Reduce noise while sound blocking keeps it from traveling into adjacent spaces
- Provide the ideal combination of sound absorption and sound blocking in one panel
- Offer a CAC of 5 or higher, the ideal value to deliver the sound blocking and confidential speech privacy
- Offer design flexibility; eliminate need for full height, floor-to-floor walls, making future space reconfigurations easier

$$\text{NRC}_{\text{ABSORB}} + \text{CAC}_{\text{BLOCK}} = \text{Total Acoustics Performance}^{\text{®}}$$

[armstrongceilings.com/totalacoustics](http://armstrongceilings.com/totalacoustics)

### Total Acoustics® Portfolio

Total Acoustics® = NRC 0.80+ and CAC 35+

High traffic spaces or multipurpose spaces where maximum sound absorption and sound blocking are needed to help keep noise levels down and prevent disruption to adjacent spaces.

BEST

Calla®	Lyra® High CAC	Ultima® High NRC	WoodWorks® Tegular	WoodWorks® Channeled Tegular	WoodWorks® Grille Tegular	Tectum® Tegular
Infill Panel: 2820	2820	2820	2820	2820	2820	1713

### For WoodWorks®, MetalWorks™ and Tectum® Solutions:

Acoustics performance for WoodWorks®, MetalWorks™, and Tectum® ceilings is determined by the product, perforation, and infill panel. (See product pages for detailed information)

Total Acoustics® = NRC 0.70-0.75 and CAC 35+

Spaces where strong sound absorption and sound blocking are needed for all-around acoustical performance.

BETTER

Ultima®	Ultima® Health Zone™	Fine Fissured™ High NRC	School Zone® Fine Fissured™	Cirrus® & Cirrus® High NRC
Infill Panel: 1713	1713	1730 or 2820	1713 or 2820	1713

Total Acoustics® = NRC 0.60-0.65 and CAC 35+

Spaces where less sound absorption is required but sound blocking is needed to maintain privacy between adjacent areas.

GOOD

Canyon®	Mesa™	School Zone® Georgian™	Cirrus® Second Look®	Cirrus® Profiles
Infill Panel: 2820	2820	1713	1713	

REFERENCE – CREATING BETTER SPACES

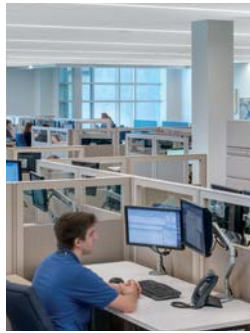


# Total Acoustics® Ceiling Panels – Flexibility to Meet the Needs of Every Space

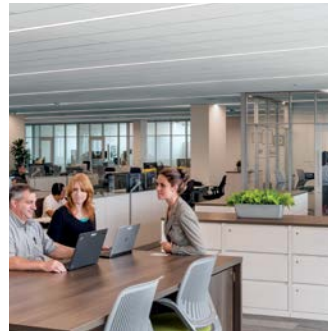
Open plan areas today can become closed plan areas tomorrow, making both absorption (NRC) and blocking (CAC) important for today's changing environments.

## ABCs™ of Acoustical Design

**A**bsorb and **B**lock sound with Total Acoustics® high performance ceiling panels. Then **C**over intruding noise with electronic sound masking.



**FOCUS SPACES**



**COLLABORATIVE SPACES**



**CONFIDENTIAL SPACES**

Setting	Situation	Acoustical Suggestion	Recommended Ceiling System
<b>Workplace</b>			
Open Office	Employees have difficulty focusing on tasks due to noisy office space. Contributors of distractions include conversations of co-workers in collaboration areas, benching workstations, and use of speaker phones.	Worker effectiveness can be increased with ceilings that provide Total Acoustics® performance using high NRC products in open plan areas to absorb and block sound.	Lyra® High CAC, Optima®, Calla®, Calla® Shapes, TechZone® Ceiling Systems Ultima® High NRC, Ultima® Shapes, Cirrus® High NRC, Fine Fissured™ High NRC Ultima®, Canyon®, Cirrus®, Formations™ Acoustical Clouds
Closed Office	Concentrating on technical work is difficult when sound can be heard through doorways, windows, and HVAC ducts transferring sound from room to room. Employees ranked acoustics the lowest of key attributes in the workplace.	Ceilings that provide Total Acoustics® performance have high CAC and NRC to provide privacy from adjoining offices and corridors.	Lyra® High CAC, Ultima® High CAC, Cirrus®, WoodWorks® Ultima, Ultima® Shapes, Calla®, Calla® Shapes, Cirrus, Mesa™ High CAC WoodWorks® Tegular, WoodWorks® Channeled, MetalWorks™ 3D, MetalWorks™ Tin, WoodWorks® Grille Tegular, MetalWorks™ Tegular, MetalWorks™ Mesh TechZone® Ceiling Systems
<b>Education</b>			
Classroom	Excessive reverberation inhibits student understanding and increases teacher vocal strain. Studies indicate that students typically hear only 3 out of every 4 words, missing 25% of what is said in the classroom.	Ceilings with Total Acoustics® performance provide shorter reverberation time, better sound absorption, and sound blocking, which promotes higher speech intelligibility.	Ultima, Ultima® Shapes, Optima, Lyra® High CAC, TechZone Ceiling Systems School Zone® Fine Fissured™, Cirrus® High NRC School Zone Fine Fissured, Cirrus
Cafeterium	Open multi-purpose spaces change from cafeterias to auditoriums to gymnasiums requiring different acoustical needs depending on use.	Sound absorption is key and can be accomplished with Total Acoustics® ceilings with high NRC products along with CAC for sound blocking to prevent sound from traveling into adjacent classrooms.	WoodWorks® Tegular, WoodWorks® Channeled, MetalWorks™ 3D, MetalWorks™ Tin, WoodWorks® Grille Tegular, MetalWorks™ Tegular, MetalWorks™ Mesh, Lyra® High CAC, Tectum® Tegular Calla®, Calla® Shapes, Ultima®, Ultima® Shapes, Formations™ Acoustical Clouds School Zone™ Fine Fissured™
<b>Healthcare</b>			
Patient Room	The need to share private medical information between patients, doctors, and other medical staff without worrying about being overheard by others is key in a healthcare environment.	A ceiling with Total Acoustics® performance helps to block noise and control reverberation, and from transferring noise to other spaces. The result is a private, secure environment for sharing confidential information, holding discreet conferences, and understanding critical instructions.	Ultima® High CAC, Ultima® High NRC, Ultima® Shapes, Ultima®, Ultima® Health Zone™, Ultima® Health Zone™ High NRC Mesa™ High CAC, Fine Fissured™ High NRC, Ultima, Ultima® Create!™, Calla, Calla® Shapes Cirrus® High NRC, Mesa
Lobby, Corridors, and Nurses' Station	Noise caused by hard surfaces, active corridors, busy nurses' stations, alarms, non-private treatment areas, and a 24/7 work environment all help to create sound levels that exceed those recommended by the World Health Organization.	Spot absorption in larger open spaces, and cleanable, scrubbable ceilings with Total Acoustics® performance offer noise reduction and sound blocking in spaces with wall-to-wall ceilings, addressing excessive noise and reverberation.	Optima® Health Zone™, Ultima® Health Zone™ Lyra® High CAC, Optima® High CAC, Calla, Calla® Shapes, Ultima, Ultima® Shapes, WoodWorks® Tegular, WoodWorks® Channeled, MetalWorks™ 3D, MetalWorks™ Tin, WoodWorks® Grille Tegular, MetalWorks™ Tegular, MetalWorks™ Mesh Cirrus®, Mesa™ High CAC

REFERENCE – CREATING BETTER SPACES



# CREATING BETTER SPACES

## Acoustic Key Terms – Ceilings

Whether your acoustical concerns are basic, specific, or revolve around achieving Total Acoustics® performance, here's a quick reference guide to help make acoustics terms a little more simple.

### Reverberation

The persistence of sound in an enclosed space after the source of the sound has stopped. The level of the reverberant sound within a room is dependent on both the volume of the room and the amount of sound absorption installed within the room, such that small hard surfaced rooms are "louder" than large well-treated rooms.



### Sound Reflection

Intentional use of non-absorptive surfaces that enhance a lively acoustical sound quality, typically for nightclubs or music venues.



### WALL-TO-WALL CEILINGS

#### Noise Reduction Coefficient (NRC) – Absorption

A measure for rating the overall sound absorption of a material when used in an enclosed architectural space where sound is reflected at many angles of incidence.

A ceiling system with an NRC < 0.50 is low performance, an NRC > 0.70 is high performance.

NRC is important in any space where reverberation time and noise levels are an issue.

- NRC is measured according to ASTM C423
- NRC is a key metric used in the Americas. Europe and other geographics use the weighted sound absorption coefficient  $\alpha_w$ .



#### Ceiling Attenuation Class (CAC) – Blocking

A measure for rating the performance of a ceiling system as a barrier to airborne sound transmission through a common plenum between adjacent closed spaces, such as private offices, and open spaces used for collaboration and focus areas.

A ceiling system with a CAC < 25 is considered low performance, whereas one with CAC  $\geq$  35 is high performance.

CAC is important between closed spaces needing privacy and from closed rooms to adjacent spaces such as:

- Closed offices to corridors
- Classrooms to group learning areas
- Healthcare offices and exam rooms to waiting rooms
- CAC is measured according to ASTM E1414.



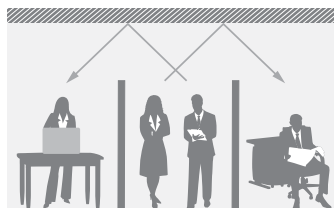
#### Articulation Class (AC)

A measure for rating the attenuation of reflected speech passing over the top of wall partitions or furniture into the adjoining workstations.

A ceiling system with AC < 150 is low performance, whereas one with AC  $\geq$  180 is high performance.

AC is important between adjacent cubicles in open plan spaces:

- Office – focus spaces
- Office – collaboration areas
- Open plan healthcare/partial height cubicle areas
- AC is measured according to ASTM E1110 and E1111.



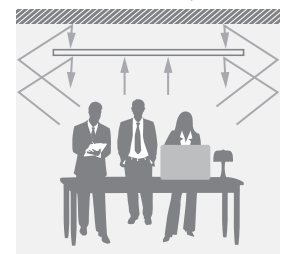
### BLADES™ & BAFFLES / CLOUDS, CANOPIES

#### Sabin

A measure of sound absorption provided by a material when installed within an architectural space. The number of sabin per unit is approximately equal to the total surface area of the unit (in square feet) that is exposed to sound, multiplied by the absorption coefficient of the material.

Sabin per unit is preferred to characterize the absorption provided by an individual "space absorber," such as a baffle, blade, cloud, or canopy in:

- Open offices or retail spaces
- Open plenum areas
- Corridors/lobbies
- Absorption of sabin is measured according to ASTM C423.



## Acoustic Key Terms – Walls

Whether your acoustical concerns are basic, specific, or revolve around achieving Total Acoustics® performance, here's a quick reference guide to help make acoustics terms a little more simple.

### WALLS

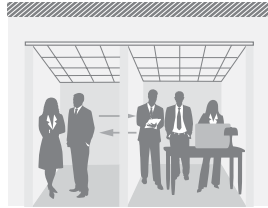
#### Sound Transmission Class (STC)

A measure for rating the performance of a wall system as a barrier to airborne sound transmission between adjacent closed spaces, such as offices.

A wall system with an STC < 35 is considered low performance, whereas one with an STC > 55 is high performance. STC is the wall equivalent of CAC.

STC is important between closed spaces and in many open plan spaces:

- Closed offices, corridors
- Open offices with dividers
- STC is measured according to ASTM E90.



#### Noise Isolation Class (NIC)

This is single-number rating calculated in accordance with ASTM E413 using measured values of noise reduction. Whereas STC is a laboratory measurement of material performance, NIC provides an estimate of the total sound isolation between two enclosed spaces that are acoustically connected by many paths.

## Acoustical Online Apps

### ONLINE TOOL – HEAR THE DIFFERENCE

#### Online Reverberation Calculator

Our interactive web-based tool calculates reverberation and sound quality for speech intelligibility which is very important for the built environment. This tool allows you to hear the before and after difference. Providing recommendations for both new spaces and upgrades to existing spaces, this easy-to-use tool makes specifying recommended sound-absorptive ceilings and walls easy, and cost effective.

[armstrongceilings.com/reverbtool](http://armstrongceilings.com/reverbtool)



### MOBILE APPS

#### Sound Level Meter App From Armstrong® Ceilings

Visualize the noise in your space with the Sound Level Meter app by Armstrong Ceilings.

- Record the noise in your space with your iPhone® mobile device
- See how it measures against recommended ranges for similar spaces
- If there's a problem, learn how to improve the acoustics



## CREATING BETTER SPACES

### Speech Intelligibility – Why It's Important in Education

The quality of the acoustic environment in a classroom or learning facility is vital, since students must be able to understand the teacher to learn effectively. This ability is especially important to students with hearing impairments, very young children, and students for whom English is a second language. Teachers must also be taken into consideration, since vocal strain can contribute to fatigue, frustration, and even “burnout.”

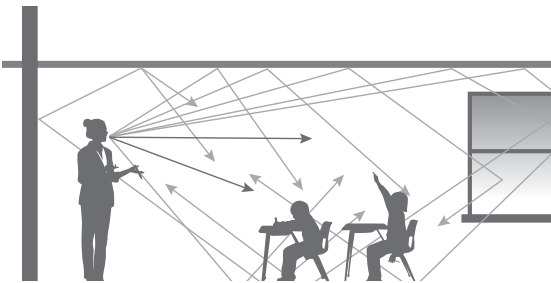
Ceiling panels with Total Acoustics® Performance provide the ideal combination of noise reduction (NRC) and sound-blocking (CAC) performance to help keep noise levels down and sound levels where you want them for optimum communications.

## $NRC^{\text{ABSORB}} + CAC^{\text{BLOCK}} = \text{Total Acoustics}^{\text{®}} \text{Performance}$

### EDUCATION

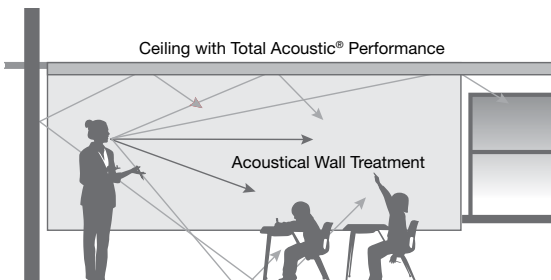
#### Hard Surface Classroom

Black arrows represent direct sound from teacher to student.  
Grey arrows represent reflected sound.



#### Acoustically Treated Classroom

The addition of sound absorbing materials reduces late arriving reflected sound, lowers reverberation time, and improves speech intelligibility.



The intelligibility of speech in a classroom depends on both reverberation time and the signal-to-noise ratio.

The signal-to-noise ratio, or S/N, is the ratio of the speech level reaching the student's ear relative to the background noise that interferes with hearing the speech.

The potential for good sound quality is determined by the architectural design as represented by reverberant sound and reverberation time. Protecting the sound quality as designed requires that the intruding background noise be kept low.

#### For improved intelligibility these are ways to increase the signal-to-noise ratio:

- Raise speech level
  - The teacher can speak louder, but, of course, runs the risk of vocal strain
- Reduce noise traveling through the ceiling plenum, from the floor above, or an adjacent classroom
  - Choose a ceiling with a high CAC value; the higher the number, the better it acts as a sound barrier
- Reduce noise traveling through the walls
  - The new ANSI standard requires a minimum STC of 50 for a wall separating two adjacent classrooms. The higher the number, the better the performance.
- Reduce noise within the room
  - Use a quiet heating/ventilation (HVAC) system

The reverberation time in a space is essentially the time it takes for the reflected sound within the space, such as from a loud hard clap, to become “inaudible.” A long reverberation time is detrimental to good speech intelligibility, since the reflections of words just spoken can interfere with words now being spoken.

#### Sound-absorptive material can be added to the room to reduce reverberation time and help meet ANSI S12.60:

- Reduce reflected sound (reverberation time)
  - Add sound-absorbing material to reduce reverberation.
  - A ceiling with an NRC of at least 0.70 is recommended
  - If installing a wood or metal ceiling, select an acoustic infill panel as indicated to achieve desired Total Acoustics® performance
  - If the ceiling is high, Soundsoak™ wall treatments also will be beneficial

# CREATING BETTER SPACES

## Speech Privacy – Why It’s Important in Offices and Healthcare

The two leading sources of workplace dissatisfaction are lack of speech privacy and noise, both of which adversely affect work performance. In healthcare, maintaining patient confidentiality, including oral privacy, is a HIPAA requirement. Noise can also affect patient recovery and HCAHPS outcomes. Total Acoustics® ceiling panels provide the ideal combination of noise reduction and sound blocking to help keep noise levels down and private conversations private.

$$NRC^{ABSORB} + CAC^{BLOCK} = \text{Total Acoustics}^{\circledR} \text{ Performance}$$

OFFICE



**NEED:**

Confidentiality in a private office or conference room

**SOLUTION:**

Total Acoustics ceiling to block sound to keep conversation private and decreased reverberation needed for focus

### Defining Speech Privacy Levels

- ① **CONFIDENTIAL**  
partially overheard, but not understood
- ② **NON-INTRUSIVE/NORMAL**  
can be overheard, partially understood
- ③ **POOR**  
mostly overheard and understood
- ④ **NO PRIVACY**  
fully overheard and understood

**Recommended Applications\***

**Confidential Privacy:**

Expected for most private offices, PI: 95%-100%.

**Normal Privacy:**

Allows people to think and concentrate and is expected for most open plan spaces. PI: 80%-95%.

**Marginal or No Privacy:**

Common in many office environments.

\*Commonly recognized levels of Speech Privacy as defined by ASTM E1130.

### Effective Building Design for Speech Privacy Using Sound-Blocking Techniques

Building design can have significant impact on speech privacy and construction costs. Below are typical construction scenarios showing how speech privacy is affected.

**Scenario 1: Typical Design**

Concrete Deck	<ul style="list-style-type: none"> <li>• Mineral fiber ceiling (NRC 0.50/CAC 33)</li> <li>• Wall-to-ceiling</li> <li>• No plenum barrier</li> <li>• Background noise at ASHRAE recommended 37 dBA</li> </ul>
Plenum	

**Privacy Index\*\* is less than 95%**

**Scenario 2: Perceived Upgrade**

Concrete Deck	<ul style="list-style-type: none"> <li>• Fiberglass or stone wool ceiling (NRC 0.90/CAC 22-27)</li> <li>• Wall-to-ceiling</li> <li>• No plenum barrier</li> <li>• Background noise at ASHRAE recommended 37 dBA</li> </ul>
Plenum	

**Privacy Index\*\* is significantly lower than 95%**

**Scenario 3: HIPAA Compliant Solution**

Concrete Deck	<ul style="list-style-type: none"> <li>• Mineral fiber ceiling (NRC 0.70/CAC 35)</li> <li>• Wall-to-ceiling</li> <li>• No plenum barrier</li> <li>• Background noise at ASHRAE recommended 37 dBA</li> </ul>
Plenum	

**Privacy Index\*\* is greater than 95% and confidential speech privacy is achieved**

\*\*Privacy Index measurement and calculation are defined in ASTM E1130

HEALTHCARE



**NEED:**

Patient recovery and oral privacy

**SOLUTION:**

Total Acoustics ceilings provide sound blocking for recuperation and decreased reverberation for optimum communications

### HIPAA, FGI & HCAHPS Guidelines in Healthcare

All healthcare facilities, including hospitals, doctors' offices, and pharmacies, need to comply with the Health Insurance Portability and Accountability Act (HIPAA). Hospitals also need favorable Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) ratings to receive certain funding. Fortunately, there are easy and economical ways to meet these oral privacy regulations and expectations in treatment and patient rooms, and waiting and reception areas. Armstrong® high-performance acoustical ceiling systems absorb and block sound to create a more quiet and therapeutic environment.

The FGI Guidelines for the Design and Construction of Healthcare Facilities also include recommendations for acoustical finishes and details, room noise levels, sound isolation, and sound masking and paging.

By using Total Acoustics® ceilings, you can help ensure compliance with HIPAA and FGI, and promote positive HCAHPS outcomes.



# UL Classified Acoustical Performance Summary

## Acoustic Performance

Product Family	Sound absorption co-efficients <sup>A</sup> – e-400 mounting						Published Value: Sound absorption <sup>B</sup> NRC <sup>D</sup>	Published Value: Sound Transmission <sup>C</sup> CAC <sup>D</sup>	Articulation Class	Total Acoustics
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz				

### Soft Fiber

Lyra®	0.75	0.95	0.79	1.00	1.03	1.00	0.95	–	190	–
Lyra® Concealed	0.70	0.84	0.78	0.99	1.06	1.01	0.90	–	190	–
Optima® 3/4"	0.81	0.94	0.76	0.93	1.05	1.01	0.90	–	180	–
Optima® 1"	0.81	0.97	0.78	0.99	1.07	1.02	0.95	–	190	–
Optima® 1" w/CAC Backing	0.44	0.60	0.79	1.09	1.08	0.89	0.90	26	200	–
Optima® 1.5"	0.73	0.95	0.92	10.60	1.03	0.94	1.00	–	200	–
Optima® 1.5" w/CAC Backing	0.51	0.85	0.91	1.13	1.09	1.01	0.95	26	200	–
Optima® Concealed	0.70	0.84	0.78	0.99	1.06	1.01	0.90	–	190	–
Optima® Concealed w/CAC Backing	0.52	0.49	0.81	0.89	1.03	0.90	0.80	26	190	–
Optima® Concealed w/CAC Backing	0.52	0.49	0.81	0.89	1.03	0.90	0.80	26	190	–
Optima® Health Zone™	0.72	1.00	0.80	1.01	1.06	0.98	0.95	–	190	–
Optima® Vector®	0.70	0.84	0.78	0.99	1.06	1.01	0.90	–	190	–
Optima® Vector® w/CAC Backing	0.52	0.49	0.81	0.89	1.03	0.90	0.80	26	190	–
Painted Nubby™ 3/4"	0.73	0.94	0.70	0.90	0.99	1.01	0.85	–	180	–
Painted Nubby™ 1"	0.81	0.97	0.78	0.99	1.07	1.02	0.95	–	190	–
Pebble™ Perforated	0.59	0.70	0.56	0.84	0.89	0.71	0.70	–	–	–
Pebble™ Perforated High NRC	0.74	0.78	0.68	0.88	0.78	0.66	0.80	–	–	–
Random Fissured™ Unperforated	0.50	0.33	0.29	0.78	0.78	0.64	0.55	–	–	–
Random Fissured™ Perforated	0.59	0.70	0.56	0.84	0.89	0.71	0.70	–	–	–
Shasta® Unperforated	0.47	0.33	0.32	0.82	0.75	0.72	0.50	–	–	–
Shasta® 5/8" Perforated	0.59	0.70	0.56	0.84	0.89	0.71	0.70	–	–	–

### Mineral Fiber

Armatuff®	0.24	0.35	0.71	0.61	0.42	0.28	0.50	33-35	–	–
Calla®	0.59	0.56	0.82	0.99	0.95	0.94	0.85	35	170	Best
Canyon®	0.41	0.32	0.56	0.84	0.82	0.80	0.60	35	–	Good
Ceramaguard® Perforated	0.28	0.27	0.43	0.72	0.92	0.86	0.55	38-40	–	–
Ceramaguard® Unperforated	–	–	–	–	–	–	–	40	–	–
Cirrus®	0.32	0.31	0.59	0.93	1.00	0.99	0.70	35	–	Better
Cirrus® Fire Guard™	0.27	0.25	0.29	0.36	0.46	0.53	0.35	35	–	–
Cirrus® High CAC	0.36	0.37	0.71	0.90	0.96	0.95	0.70	38-40	–	Better
Cirrus® High NRC	0.33	0.39	0.85	1.00	0.96	0.96	0.75	35	170	Better
Cirrus® Profiles	0.23	0.31	0.59	0.83	0.95	0.95	0.65	35	–	Good
Cirrus® Second Look®	0.23	0.31	0.59	0.83	0.95	0.95	0.65	35	–	Good
Clean Room™ FL (border units)	–	–	–	–	–	–	–	35	–	–
Clean Room™ FL (field units)	0.25	0.24	0.59	0.90	0.75	0.51	0.55	35	–	–
Clean Room™ VL Perforated	0.22	0.24	0.53	0.90	0.78	0.47	0.55	35	–	–
Clean Room™ VL Unperforated	–	–	–	–	–	–	–	40	–	–

A = These are representative data for the product family. Sound absorption test data for specific item tested. Data and test reports for most products available upon request. Contact TechLine at [techline@armstrongceilings.com](mailto:techline@armstrongceilings.com)

B = Sound Absorption Data and NRC rating obtained by ASTM Procedure C423, "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method." Sample mountings follow procedures outlined in ASTM E795, "Standard Practices for Mounting Test Specimens During Sound Absorption Tests."

C = Sound Transmission loss data obtained by procedures outlined in AMA-1-II, "Test Method for Ceiling Sound Transmission Test by the Two-Room Method" or by the ASTM Procedure E1414, "Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum." CAC rating determined by following procedures outlined in ASTM Procedure E413, "Classification for Rating Sound Insulation."

D = NRC and CAC single number ratings comply with ASTM E1264 classification requirements.

NOTE: For acoustical details for Tectum® products, contact TechLine at 877 276 7876

REFERENCE – ACOUSTIC PERFORMANCE



# UL Classified Acoustical Performance Summary

## Acoustic Performance

Product Family	Sound absorption co-efficients <sup>a</sup> – e-400 mounting						Published Value: Sound Absorption <sup>b</sup> NRC <sup>d</sup>	Published Value: Sound Transmission <sup>c</sup> CAC <sup>d</sup>	Articulation Class	Total Acoustics
	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz				
<b>Mineral Fiber (continued)</b>										
Cortega®	0.21	0.26	0.51	0.78	0.75	0.69	0.55	33-35	–	–
Cortega® Fire Guard™	0.22	0.26	0.46	0.78	0.92	0.82	0.55	35	–	–
Cortega® Second Look®	0.20	0.30	0.48	0.72	0.73	0.73	0.55	30-35	–	–
Cortega® Second Look® Fire Guard	0.23	0.31	0.56	0.87	0.85	0.82	0.55	40	–	–
Designer	0.33	0.33	0.51	0.68	0.73	0.76	0.55	30-33	–	–
Dune™	0.39	0.35	0.60	0.60	0.51	0.34	0.50	30-35	–	–
Dune™ Fire Guard™	0.21	0.28	0.51	0.74	0.60	0.42	0.50	35	–	–
Dune™ Second Look®	0.37	0.37	0.63	0.64	0.56	0.39	0.50	35	–	–
Fine Fissured™	0.30	0.35	0.59	0.71	0.69	0.58	0.55	35	–	–
Fine Fissured™ Fire Guard™	0.20	0.27	0.52	0.89	0.82	0.75	0.55	35	–	–
Fine Fissured™ Fire Guard™ High NRC	0.20	0.30	0.74	0.95	0.87	0.78	0.70	35-40	–	Better
Fine Fissured™ High NRC	0.28	0.39	0.86	1.01	1.01	1.02	0.75	35	170	Better
Fine Fissured™ School Zone	0.29	0.30	0.65	0.91	0.85	0.79	0.70	35-40	–	Better
Fine Fissured™ Second Look®	0.20	0.30	0.48	0.72	0.73	0.73	0.55	30-35	–	–
Fine Fissured™ Second Look® FireGuard	0.23	0.31	0.56	0.87	0.85	0.82	0.55	35	–	–
Fine Fissured™ Tile	0.43	0.31	0.42	0.66	0.79	0.70	0.55	35	–	–
Fissured™	0.25	0.25	0.46	0.74	0.82	0.81	0.55	30	–	–
Fissured™ Fire Guard™	0.22	0.26	0.46	0.78	0.92	0.82	0.55	35	–	–
Georgian™	0.21	0.26	0.51	0.78	0.75	0.69	0.55	33-35	–	–
Georgian™ Fire Guard™	0.22	0.26	0.46	0.78	0.92	0.82	0.55	35	–	–
Georgian™ High Washability	–	–	–	–	–	–	–	33	–	–
Graphis® Finetex™	–	–	–	–	–	–	–	35	–	–
Graphis® Rustex™	0.39	0.31	0.44	0.69	0.89	0.98	0.55	30	–	–
Invisacoustics®	0.29	0.66	0.97	0.87	0.88	0.82	0.75	–	–	–
Ledges®	–	–	–	–	–	–	–	35	–	–
Mesa	0.35	0.40	0.67	0.78	0.76	0.67	0.60	33-35	–	Good
Mesa High CAC	0.30	0.32	0.69	0.84	0.73	0.62	0.60	40	–	Good
Mesa Second Look®	0.35	0.40	0.67	0.78	0.76	0.67	0.60	35	–	Good
Tincraft™	–	–	–	–	–	–	–	35	–	–
Tundra®	0.23	0.26	0.57	0.67	0.50	0.38	0.50	33-35	–	–
Ultima®	0.32	0.33	0.67	0.97	0.96	0.93	0.75	35	–	Better
Ultima® Fire Guard™	0.26	0.31	0.59	0.78	0.80	0.69	0.60	40	–	Good
Ultima® Health Zone™	0.30	0.32	0.71	0.92	0.90	0.89	0.70	38	–	Better
Ultima® Health Zone™ High NRC	0.33	0.36	0.76	1.00	0.98	0.98	0.80	35	–	Best
Ultima® High CAC	0.26	0.31	0.59	0.78	0.80	0.69	0.60	40	–	Good
Ultima® High NRC	0.28	0.39	0.79	0.98	0.96	0.90	0.80	35	170	Best
Ultima® Vector®	0.34	0.38	0.67	0.89	0.82	0.80	0.70	33	–	–

A = These are representative data for the product family. Sound absorption test data for specific item tested. Data and test reports for most products available upon request. Contact TechLine at [techline@armstrongceilings.com](mailto:techline@armstrongceilings.com)

B = Sound Absorption Data and NRC rating obtained by ASTM Procedure C423, "Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method." Sample mountings follow procedures outlined in ASTM E795, "Standard Practices for Mounting Test Specimens During Sound Absorption Tests."

C = Sound Transmission loss data obtained by procedures outlined in AMA-1-II, "Test Method for Ceiling Sound Transmission Test by the Two-Room Method" or by the ASTM Procedure E1414, "Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum." CAC rating determined by following procedures outlined in ASTM Procedure E413, "Classification for Rating Sound Insulation."

D = NRC and CAC single number ratings comply with ASTM E1264 classification requirements.

NOTE: For acoustical details for Tectum® products, contact TechLine at 877 276 7876

REFERENCE – ACOUSTIC PERFORMANCE

# DURABILITY & CLEANABILITY

When manufacturers make durability claims, it is important to understand the vigor and testing behind them. Our icons and claims are backed whenever possible, by available industry-standard tests, as outlined below.

## Water Repellency

**Look for this icon** identifying product pages with items having Water Repellency performance



Ceilings installed in healthcare environments are required to be cleanable and must not interfere with infection control. In addition to washability and scrubbability, ceilings in healthcare spaces should also be water-repellent. While an ASTM test does not exist to test for water repellency, in-house testing confirms that Ultima® Health Zone™, Ultima® Health Zone™ High NRC, and Optima® Health Zone™ have been engineered to resist water absorption for a minimum of 15 minutes; the time required for proper cleaning and disinfection.



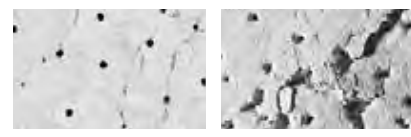
## Impact Resistance

Striking Ball Impact Test – Modified ASTM D1037 Procedure

**Look for this icon** identifying product pages with items having Impact Resistant performance



Ceilings in areas like school corridors or gymnasiums need to withstand abuse, including surface impact. The Striking Ball Impact Test evaluates a ceiling's impact resistance.



These photos show the excellent impact resistance of a Tundra® ceiling versus a less impact-resistant ceiling.

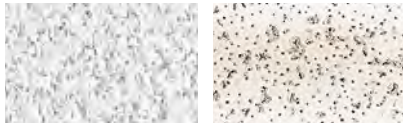
## Washability

Washability Test – ASTM D4828

**Look for this icon** identifying product pages with items having Washability performance



Ceilings installed in laboratories, clean rooms, food preparation areas, and other sanitary applications are required to meet washability standards. The Washability Test evaluates a ceiling's ability to withstand washing.



These photos show the superior washability of a Health Zone ceiling versus a standard ceiling.

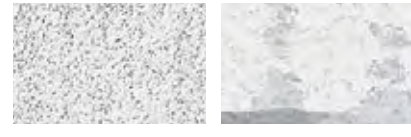
## Scratch Resistance

Hess Rake Test

**Look for this icon** identifying product pages with items having Scratch Resistance performance



In any areas where lay-in ceiling panels frequently need to be removed for plenum access, surface scratch resistance is highly desirable. The Hess Rake Test evaluates surface scratch resistance.



These photos show the excellent scratch resistance of an Ultima® ceiling (with DuraBrite® surface) versus a competitive fine texture ceiling.

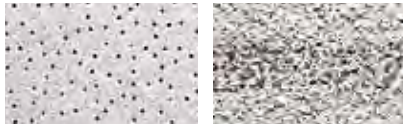
## Scrubbability

Scrubbability Test – Modified ASTM D2486 Procedure

**Look for this icon** identifying product pages with items having Scrubbability performance



Ceilings installed in laboratories, clean rooms, and food preparation areas are required to meet scrubbability standards – and, sometimes other specific criteria. The Scrubbability Test evaluates a ceiling's ability to withstand scrubbing.



These photos show the excellent scrubbability of a VL ceiling versus a less scrubbable ceiling.

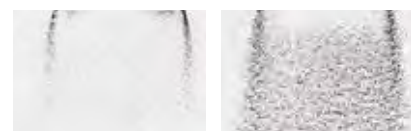
## Soil Resistance

Simulated Supply Air Diffuser Soiling Test

**Look for this icon** identifying product pages with items having Soil Resistance performance



Dirt accumulation not only detracts from a ceiling's appearance, but can cost money by requiring painting or replacement of the ceiling. In addition to reducing acoustical efficiency, soiling can cause a substantial reduction in light reflectance. The Simulated Supply Air Diffuser Soiling Test evaluates this soil-resistant property.



These photos show the excellent soil resistance of an Ultima® ceiling (with DuraBrite® surface) versus a competitive fine texture ceiling.

## Frequent Plenum Access

Minimize Damage

**Look for this icon** identifying product pages with items having Frequent Plenum Access



Downward access for Vector® panels minimizes panel damage from hanger wires and other obstructions.



## HUMIDITY PROTECTION & SAG RESISTANCE

Often, ceilings are installed before buildings are enclosed, exposing the building materials to high levels of humidity. Many Armstrong® ceilings can be installed in the state of construction when windows are not fully installed without any risk of sag.

### HUMIGUARD® PERFORMANCE

- Ceilings can be installed before buildings are enclosed
- Minimize replacement of sagging ceilings
- Stay flat, even where HVAC systems are cycled

#### HumiGuard® Max

Look for this icon identifying product pages with items having HumiGuard® Max performance



**HumiGuard Max** ceiling tiles are recommended for areas with maximum humidity, including outdoor applications.

#### HumiGuard® Plus

Look for this icon identifying product pages with items having HumiGuard® Plus performance



**HumiGuard Plus** ceilings are recommended for areas subject to high humidity, up to but not including standingwater and outdoor applications.

Virtually all Armstrong acoustical panels not identified as HumiGuard Plus or HumiGuard Max provide acceptable humidity resistance for most conventional commercial building applications, when the building is closed in and HVAC systems are functioning on an ongoing basis.

Armstrong® HumiGuard® Plus fiberglass ceiling panels and HumiGuard® Max mineral fiber ceiling panels are warranted to inhibit the growth of mold and mildew for 30 years from the date of installation due to the inherent characteristics of the product.

## MOLD & MILDEW PROTECTION

#### BioBlock® Performance

Look for this icon identifying product pages with items having BioBlock® performance



Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

Commercial ceiling panels with BioBlock® coating are warranted to inhibit the growth of mold and mildew for 30 years from the date of installation.

## FIRE RESISTANCE

Local building codes for safe construction rely on two fire ratings to evaluate compliance: (1) Material Flame Spread/Smoke Developed Index Rating, and (2) Fire Resistance Assembly Rating. These ratings are based on ASTM standards, and compliance is determined by several independent, non-governmental testing services such as Underwriters Laboratories, Inc.

### SELECTING THE RIGHT UL FIRE-RATED ASSEMBLY

#### Flame Spread Index (FSI)/Smoke Developed Index (SDI) ASTM E84; UL 723; CAN/ULC - S102M

This is a standard method of testing for surface-burning characteristics of building products. FSI is the relative rate at which a flame will spread over the surface of the material. This index is compared against a rating of 0 for inorganic reinforced cement board, and an index of 100 for red oak. Class A (ASTM E1264) building products require a flame spread index of 25 or less – the required standard for most commercial applications. Class A building products require a smoke developed index of 50 or less.

#### Continuous Versus Open Plenum Ceilings

A continuous ceiling may allow sprinklers and smoke detectors to activate faster, providing added escape time for occupant evacuation. In buildings where a ceiling is not in place, the height of the space is normally greater and could delay the operation of the fire sprinkler or smoke detector systems.

#### Fire Resistance Rating of a Ceiling Assembly (ANSI/UL 263 – ASTM E119 and NFPA 251) (CAN/ULC - S101M)

The degree to which the entire assembly (measured in hours), not individual components, withstands fire and high temperatures.

Specifically, it is an assembly's ability to prevent the spread of fire between spaces while retaining structural integrity.

The resulting fire resistance rating relates to the assembly in its entirety and is published or classified in the UL Fire Resistance Directory.

#### Selecting the Right UL Fire-Rated Assembly

1. Establish the hourly rating needed to meet code requirements.
2. Determine the existing or planned building elements, including structural, mechanical, electrical, and finish materials, in the fire-rated assembly.
3. Refer to the Fire Resistance Rating Summary ([armstrongceilings.com/ulfire](http://armstrongceilings.com/ulfire)) to determine the UL design numbers and ceiling system products that correspond to the fire-rated assemblies that meet your needs.
4. Refer to the Fire Resistance Selector information on our web site [armstrongceilings.com/commercial](http://armstrongceilings.com/commercial).

#### Two types of fire-rated construction assemblies pertain to acoustical ceiling systems:

##### Roof/Ceiling Assemblies

Ceiling system, lighting, HVAC outlets, and other penetrants through the ceiling, the plenum, roof support structure, and roof assembly including deck, insulation, and roofing system.

##### Floor/Ceiling Assemblies

Ceiling system, lighting, HVAC outlets, and other penetrants through the ceiling, the plenum, structural system, subfloor, and finished floor.



Armstrong® panels are UL listed and outperform requirements for ceilings.

For UL Fire Resistive Ceiling Assembly Details, see pages 483-485.

Look for this icon identifying product pages with Fire Guard® items. Use only Fire Guard™ products for fire-rated assemblies.



Armstrong® Fire Guard™ ceilings are specially formulated to provide enhanced resistance against structural failure. Fire Guard suspension systems have expansion relief to help maintain structural integrity of the ceiling.



Main beam expansion relief

Fire Guard™ products in this catalog are listed under the following ceiling product families:

Ceramaguard®	Pages 284-285
Ceramaguard® Fine Fissured™	Pages 284-285
Cirrus®	Pages 286-291
Clean Room™ VL	Pages 298-299
Cortega®	Pages 300-301
Cortega® Second Look®	Pages 300-301
Dune™	Pages 306-307
Fine Fissured™	Pages 312-319
Fine Fissured™ Second Look	Page 320
Fissured™	Page 321
Georgian™	Pages 322-323
Ultima®	Pages 376-383
VL	Pages 298-299

# Fire Resistance Assembly Chart

# Fire Resistance

Deck Construction Type	UL Design Number	Concrete Thickness	Panel or Tile Size and Type	Minimum Panel or Tile Thickness	Maximum Fixture Penetration (in <sup>2</sup> /100 SF)	Maximum Duct Penetration (in <sup>2</sup> /100 SF)	Suspension Systems
<b>CONCRETE FLOOR/CEILING ASSEMBLIES</b>							
<b>Concrete on Flat Cellular, Fluted, or Blend Deck</b>							
3-Hour – Exposed Grid	A212	2-1/2"	48" x 48"; PC 36" x 60"; PC 30" x 60"; PC	5/8"	25	158	1, 2
	D216	3-1/4"	24" x 24" to 30" x 60"; P 24" x 24" to 36" x 60" or 48" x 48"; PC	5/8" (P or PC)	24	576	1, 2
2-Hour – Exposed Grid	D216	2-1/2"	24" x 24" to 30" x 60"; P 24" x 24" to 36" x 60" or 48" x 48"; PC	5/8" (P or PC)	24	576	1, 2, 3
<b>Concrete on Ribbed or Corrugated Deck</b>							
3-Hour – Exposed Grid	G256	3-1/2"	24" x 24"; P 24" x 48"; P or PC	5/8" (P or PC)	24	255	1, 2
2-Hour – Exposed Grid	G256	2-1/2"	24" x 24"; P 24" x 48"; P or PC	5/8" (P or PC)	24	576	1, 2, 3
	G258	2-1/2"	24" x 24"; P 24" x 48"; P	5/8"	24	113	1, 2
	G214	2-3/4"	24" x 48"; P 20" x 60"; P	5/8"	17	57	1, 2
<b>Concrete on Metal Lath, Ribbed, or Corrugated Deck</b>							
3-Hour – Exposed Grid	G229	3-1/4"	24" x 48"; P or PC	5/8"	20	576	1, 2
2-Hour – Concealed Grid	G022	2-1/2"	12" x 24"; P	3/4"	16	57	4
2-Hour – Exposed Grid	G209	3"	24" x 48"; P or PC 24" x 24"; P or PC	5/8"	8	None	1, 2
	G244*	3"	24" x 48"; P or PC 24" x 24"; P or P 20" x 60"; P or PC	5/8"	24*	576	1, 2, 3
	G210	2-1/2"	24" x 24"; P	3/4"	24	113	1, 2
	G216	2-1/2"	24" x 48"; P or PC 24" x 24"; P	5/8"	8	None	1, 2
	G217	2-1/2"	24" x 48"; P or PC 24" x 24"; P or PC 20" x 60"; P or PC	5/8"	8	57	1, 2
	G229	2-1/2"	24" x 48"; P or PC 24" x 24"; P or PC 20" x 60"; P or PC	5/8"	20	576	1, 2, 3
	G242	2-1/2"	24" x 48"; P or PC	5/8"	8	None	1, 2
2-Hour – Exposed Grid	G243*	2-1/2"	24" x 48"; P 24" x 24"; P 20" x 60"; P	5/8"	16	576	1, 2, 3
	G236	2-1/2"	24" x 48"; P 24" x 24"; P	5/8"	None	None	1, 2
	G250	2-1/2"	30" x 60"; P or PC 20" x 60"; P or PC 24" x 48"; P or PC 24" x 24"; P	5/8"	20	113	1, 2
1-Hour – Exposed Grid	G241	2"	24" x 48"; P 24" x 24"; P	5/8"	None	None	1, 2
<b>WOOD DECK/CEILING ASSEMBLIES</b>							
<b>Double-Plywood (or Plywood), 2' X 10' Wood Joists</b>							
1-Hour – Exposed Grid	L209	NA	24" x 48"; P	5/8"	16	110	1, 2
	L210	NA	24" x 48"; P 24" x 24"; P	5/8"	24	227	1, 2, 3
<b>Double-Plywood (or Plywood), 3' X 8' Wood Joists</b>							
1-1/2-Hour – Exposed Grid	L208	NA	24" x 48"; P or PC 24" x 24"; P	5/8"	None	None	1, 2

NOTE: Numbers in parentheses are original UL design numbers.  
Some unit sizes are no longer available as standard items; some designs include additional sizes.  
\* Allows flat-board fixture protection

## WHAT YOU NEED TO KNOW TO USE THIS CHART

If you are unfamiliar with UL Fire Resistance Ratings, begin with a review of meeting Code Requirements, pg. 482.  
As explained there, these ratings are applied to certain types of roof/ceiling and floor/ceiling construction assemblies, which are tested and assigned hourly ratings mandated by building codes or other building safety requirements.

### Reminders:

- UL tests rate an entire assembly. No ceiling or suspension system product alone constitutes a fire-rated assembly.
- You can use only the specific type, size, and minimum thickness of Fire Guard™ ceilings or suspension system identified in each assembly.
- This table is a guide.

(See UL Fire Resistance Directory for complete design details).  
To purchase a copy of the UL Directory:  
Underwriters Laboratories, Inc.  
Publications Stock  
333 Pfingsten Rd.  
Northbrook, IL 60062  
(Tel.) 847-272-8800,  
ext. 42612 or 42622

### Key to Panel and Tile Types

PC = Ceramaguard®

P = All other products designated Fire Guard™ in this catalog

### Key to Grid System Types

- = AFG and FST 6000 – Prelude® Fire Guard™ and Prelude® XL® Fire Guard™ with steel cap
- = AFG-A and FST 6000A – Prelude® Plus XL® Fire Guard™ and XL Fire Guard with aluminum cap
- = FSLK – Suprafine® Fire Guard™ with steel cap

# Fire Resistance Assembly Chart

# Fire Resistance

Deck Construction Type	UL Design Number	Concrete Thickness	Panel or Tile Size and Type	Minimum Panel or Tile Thickness	Maximum Fixture Penetration (in <sup>2</sup> /100 SF)	Maximum Duct Penetration (in <sup>2</sup> /100 SF)	Suspension Systems
<b>ROOF/CEILING ASSEMBLIES</b>							
<b>Standing Seam Exposed Metal Roof</b>							
1-1/2 + 1-Hour – Exposed Grid	P265***	See Design Details	24" x 48"; P or PC 24" x 24"; P or PC	3/4" (P) 5/8" (PC)	24	576	1
<b>Lightweight Insulating Concrete on Ribbed or Corrugated Deck</b>							
2-Hour – Exposed Grid	P215	2"	24" x 48"; PC plus 24" x 48"; Gypsum Bd.	5/8" (PC) plus 1/2" Gypsum Bd.	16	57	1, 2
	P219	2"	24" x 48"; PC plus 24" x 24"; Gypsum Bd.	5/8" (PC) plus 1/2" Gypsum Bd.	16	57	1, 2
	P251	2-3/4" Min. to 6-3/4"	24" x 48"; P or PC 24" x 24"; P or PC 20" x 60"; P or PC	5/8" (P or PC)	24	576	1, 2, 3
1-1/2 Hour – Exposed Grid	P231	3-3/8"	24" x 48"; 24" x 24"; P 24" x 48"; Gypsum Bd.	5/8"	24	255	1, 2
1-Hour – Exposed Grid	P216*	2"	24" x 48"; P	5/8"	16	57	1, 2
<b>Mineral-Fiber, Glass-Fiber, or Composite Roof Insulation on Fluted Metal Roof Deck</b>							
INSULATION THICKNESS							
1-1/2 Hour – Exposed Grid	P225	1" min. to unlimited max.	24" x 48"; P or PC 20" x 60"; P or PC	5/8"	24	255	1, 2
	P227	1" min. to unlimited max.	24" x 48"; P or PC	3/4" (P)	24	255	1, 2
	P250***	1" min. to unlimited max.	24" x 48"; P or PC 24" x 24"; P or PC	3/4" (P) 5/8" (PC)	24	113	1
1-Hour – Exposed Grid	P206	1" min. and max.	24" x 48"; P	5/8"	16	113	1, 2
	P210	1" min. and max.	24" x 48"; PC	5/8"	16	57	1, 2
	P211	1" min. to 2" max.	24" x 48"; PC	5/8"	16	57	1, 2
	P225	1" min. to unlimited max.	24" x 48"; P or PC 24" x 24"; P or PC 20" x 60"; P or PC	5/8" (P or PC)	24	576	1, 2, 3
	P227	1" min. to unlimited max.	24" x 48"; P or PC 24" x 24"; P or PC	5/8"	24	255	1, 2
	P250***	1" min. to unlimited max.	24" x 48"; P or PC 24" x 24"; P or PC	3/4" (P) 5/8" (PC)	24	576	1
<b>Poured Gypsum Concrete Over 1/2" Gypsum Formboard</b>							
1-1/2-Hour – Exposed Grid	P217	1-1/2"	24" x 60"; P	5/8"	16	288	1, 2
<b>IRMA (Inverted Roof Membrane Assembly)</b>							
1-Hour – Exposed Grid	R217 (UL Canada)	2" min. to unlimited max.	24" x 48"; P or PC	5/8"	24	255	1, 2
Deck Construction Type	UL Design Number	Concrete Thickness	Minimum No. of Layers	Minimum Panel or Tile Thickness	Maximum Fixture Penetration (in <sup>2</sup> /100 SF)	Maximum Duct Penetration (in <sup>2</sup> /100 SF)	Suspension Systems
<b>FLOOR/CEILING DRYWALL ASSEMBLIES</b>							
<b>Concrete on Composite Flat Cellular, Fluted, or Blend Deck</b>							
2-Hour	D501	2-1/2"	1	5/8"	None	None	DFR8000 DFR8000SS
	D502**	2-1/2"	1	5/8"	24	144	DFR8000 DFR8000SS
<b>Concrete on Metal Lath, Corrugated, and Ribbed Deck</b>							
3-Hour	G523	3"	1	5/8"	24	144	DFR8000
	G524	3-1/2"	1	1/2"	None	113	DFR8000
	G529	3-1/4"	1	1/2"	24	57	DFR8000
	G529	3-3/4"	1	5/8"	24	57	DFR8000
	G561	2-1/2"	–	–	144	144	DFR8000
	G523	2-1/2"	1	1/2"	24	144	DFR8000 DFR8000SS
2-Hour	G524	2-1/2"	1	1/2"	None	113	DFR8000 DFR8000SS
	G526	2-1/2"	1	1/2"	25	56.5	DFR8000 DFR8000SS
	G527	2-1/2"	1	1/2"	None	None	DFR8000 DFR8000SS
	G527	2-1/2"	1	1/2"	24	57	DFR8000 DFR8000SS
	G561	2-1/2"	–	–	144	144	DFR8000
	G527	2-1/2"	1	1/2"	None	None	DFR8000 DFR8000SS
1 1/2-Hour	G527	2-1/2"	1	1/2"	None	None	DFR8000 DFR8000SS
1 Hour	G561	2-1/2"	–	–	144	144	DFR8000
<b>Concrete on Steel Deck</b>							
2-Hour	G-553	1"	1	5/8"	None	None	DFR8000
1-Hour	G-553	1"	1	5/8"	None	None	DFR8000 DFR8000SS

\* Allows flat-board fixture protection \*\* Concrete plus insulation \*\*\* Square-edge ceiling panels only

REFERENCE – FIRE RESISTIVE ASSEMBLIES

# Fire Resistance Assembly Chart

# Fire Resistance

Deck Construction Type	UL Design Number	Concrete Thickness	Minimum Number of Layers	Minimum Panel or Tile Thickness	Maximum Fixture Penetration (in <sup>2</sup> /100 SF)	Maximum Duct Penetration (in <sup>2</sup> /100 SF)	Suspension Systems
<b>FLOOR/CEILING DRYWALL ASSEMBLIES (CONT.)</b>							
<b>Concrete on Composite Steel Joist</b>							
2-Hour	G-531	3"	1	5/8"	144	20	DFR8000 DFR8000SS
1-1/2-Hour	G-531	3"	1	5/8"	144	20	DFR8000 DFR8000SS
1-Hour	G-531	3"	1	5/8"	144	20	DFR8000 DFR8000SS
<b>Clark Dietrich C-Channel System</b>							
2-Hour	G-553	1"	1	5/8"	None	None	DFR8000 DFR8000SS
	G-560	1"	1	5/8"	None	None	DFR8000
	G-566	2"	1	5/8"	None	None	DFR8000 DFR8000SS
	G-579	1"	1	5/8"	None	None	DFR8000 DFR8000SS
	G-594	1"	1	5/8"	None	None	DFR8000
1-Hour	G-553	1"	1	5/8"	None	None	DFR8000 DFR8000SS
	G-560	1"	1	5/8"	None	None	DFR8000
	G-566	2"	1	5/8"	None	None	DFR8000 DFR8000SS
	G-579	1"	1	5/8"	None	None	DFR8000 DFR8000SS
	G-591	1"	1	5/8"	None	None	DFR8000
<b>Concrete on Steel Deck and Steel Joists</b>							
3-Hour	G-561	2-1/2"	1	5/8"	144	144	DFR8000
2-Hour	G-561	2-1/2"	1	5/8"	144	144	DFR8000
1-1/2-Hour	G-561	2-1/2"	1	5/8"	144	144	DFR8000
1-Hour	G-561	2-1/2"	1	5/8"	144	144	DFR8000
<b>WOOD DECK/CEILING DRYWALL ASSEMBLIES</b>							
1-Hour	L502	NA	1	1/2"	None	None	DFR8000 DFR8000SS
	L513	NA	1	5/8"	None	None	DFR8000 DFR8000SS
	L515	NA	1	1/2"	None	None	DFR8000 DFR8000SS
	L525	NA	1	1/2"	24	57	DFR8000 DFR8000SS
	L526*	NA	1	5/8"	24	114	DFR8000 DFR8000SS
<b>Plywood (2), 2 x 10 or (1) 4 x 10 Wood Joists</b>							
1-Hour	L508	NA		5/8"	None	None	DFR8000 DFR8000SS
<b>Plywood with Wood Trusses</b>							
1-Hour	L529	NA		5/8"	24	57	DFR8000 DFR8000SS
<b>Structural Cement – Fiber Units Over Steel Joists</b>							
1-Hour	L-564	3/4"	1	5/8"	144	144	DFR8000 DFR8000SS
<b>ROOF/CEILING DRYWALL ASSEMBLIES</b>							
<b>Standing Seam exposed Metal Roof with Batts/Blankets</b>							
1-Hour	P516	NA	2	5/8"	None	None	DFR8000
<b>Mineral Fiber Foam on Cellular, Fluted, Corrugated Metal Deck</b>							
2-Hour	P514	NA	1	5/8"	24	255	DFR8000 DFR8000SS
1-1/2-Hour	P507	NA	1	5/8"	24	57	DFR8000 DFR8000SS
	P510	NA	1	5/8"	24	57	DFR8000 DFR8000SS
	P513*	NA	1	5/8"	24	144	DFR8000 DFR8000SS
1-Hour	P508*	NA	1	5/8"	24	144	DFR8000 DFR8000SS
	P509*	NA	1	5/8"	24	144	DFR8000 DFR8000SS
	P510	NA	1	1/2"	24	57	DFR8000 DFR8000SS
<b>Mineral Fiber/Laminated Gypsum Planks</b>							
1-1/2-Hour	P506	2"	1	5/8"	24	57	DFR8000 DFR8000SS

NOTE: Numbers in parentheses are original UL design numbers.  
Some unit sizes are no longer available as standard items; some designs include additional sizes.

\*Optional acoustical tile may be glue-applied to gypsum board.  
DFR8000 – UL designation, Fire Guard™ drywall grid system  
DFR8000SS – UL designation, Fire Guard™ ShortSpan® drywall grid system



## SEISMIC COMPLIANCE

In geographic seismic zones, properly engineered building structures need to be properly designed to withstand the seismic effects, while sustaining an acceptable level of damage. The International Building Code (IBC) presents minimum design/performance requirements and, in some instances, prescriptive guidance for product and installation requirements in seismic areas.

The purpose of this requirement is to:

- Provide a suspension system strong enough to resist lateral forces imposed upon it without failing
- Prevent border panels from falling from the ceiling plane

### INSTALLATION REQUIREMENTS FOR SUSPENDED CEILINGS

#### IBC Requirements for Wall-to-Wall Ceiling Systems with Standard Acoustical Suspension Systems

IBC requirements are based on flat, level, suspended ceiling systems – main beams and cross tees suspended from the building structure by wires and wall molding around the perimeter.

- The IBC code is based on the suspension system only
- Many manufacturers market non-standard ceiling systems not covered by the code
- You must be able to prove that specified ceiling systems perform at a level consistent with the intent of the code

#### Installation Requirements for Clouds, Canopies, and Vertical Elements

Code officials may reject specified products such as clouds or canopies\* during plan review, challenging your design and delaying the construction schedule.

However, the code “is not intended to prevent”<sup>1</sup> the installation of certain ceiling systems, and does allow “alternative materials, designs, and methods” to be used. To substantiate claims for alternative materials and designs, code officials “have the authority to require tests as evidence of compliance.”<sup>2</sup> If you are having problems getting free-floating or non-traditional objects approved, contact your local Armstrong Ceilings representative. See page 487 for a list of tested systems.

<sup>1</sup> Section 104.11 Alternative materials, designs, and methods of construction and equipment.

<sup>2</sup> Section 104.11.2 Tests.

\*Armstrong Ceilings defines a cloud as a ceiling that is not connected to a wall on any side. Armstrong defines a canopy as a single, unique architectural element which is independently suspended from the building structure.

#### Installation Requirements for Suspended Drywall Ceilings

The drywall grid components listed in ESR-1289 and ESR-2311, which represent a code-compliant system for suspended-ceiling-mounted drywall installations, meet ASTM C645 and are UL Fire Rated. Armstrong® Drywall Grid Systems offer a labor- and cost-saving method of meeting seismic code without risk of delaying your construction schedule. Additional benefits of ESR-1289 and ESR-2311 are:

- Elimination of the lateral load design requirements (see ESR-1289, Section 4.4.1)
- Recognition and approval of DGS 6' cross tees (XL8965), and that 6' spacing of main beams reduces material, hanger wire, and installation time
- UL approval of XL8965 in fire-rated applications
- Recognition of fire-rated Type “F” cross tees – XL8947, XL8947P, XL8925, and XL8918
- Recognition and approval of ShortSpan® pre-engineered solution to support spans up to seven feet with no independent support

#### Seismic Rx® Suspension System

Armstrong® Ceilings has an International Code Council-Evaluation Service (ICC-ES) approach to installation evaluated by the entitled Evaluation Service Report (ESR-1308). The Armstrong Seismic Rx Suspension System eliminates unsightly 2" wall angles in Category D, E, F seismic-compliant installations. It provides a labor- and cost-saving method of meeting seismic codes without the risk of delaying the construction schedule.



#### ICC Evaluated Heavy-duty Suspension Systems ESR-1308

- Prelude® XL® 15/16" Exposed Tee suspension system
- Suprafine® XL® 9/16" Exposed Tee suspension system
- Silhouette® XL® 9/16" Slotted Tee suspension system
- Interlude® XL® 9/16" Exposed Tee suspension system

2" wall angles are prone to the following problems:

- Difficult to keep “tight” to wall
- Difficult to install corners
- Prone to twisting and warping



#### ESR-1308 Lists Specific Armstrong Ceiling Components and Method of Installation

The performance of the Armstrong Seismic Rx Suspension System is based on the specific combination of components and method of installation. **Other manufacturers' components and installation methods were not tested, and are not covered in the ESR-1308 evaluation. Substitution of other components puts the system at risk and is not allowed by this ESR report.**

For more information and code-related web site information, refer to our brochure: “WHAT YOU NEED TO KNOW Code Requirements Seismic Rx® Tested Solutions” BPCS-4141



# SEISMIC COMPLIANCE

Providing a valid Evaluation Service Report (ESR) to a code official represents the “gold standard” for installations. The ESR represents the safest, least risky method for selecting a seismic ceiling solution. Armstrong Ceilings also has tested products that do not appear in ESR reports, as many products do not have clear code requirements. Armstrong Ceilings can provide you with seismic test results via a white paper or test report based on large-scale seismic shake table test results from an IAS accredited test facility (State University of New York, University at Buffalo). Contact TechLine at 877 276-7876, [techline@armstrongceilings.com](mailto:techline@armstrongceilings.com)

**Armstrong Ceilings is one of the only ceiling manufacturers consistently providing seismic test results for all types of installations: Wall-to-Wall Ceilings, Canopies, Clouds, Vertical Elements, and Drywall Grid Systems.**

When requesting a white paper or test report, please have this information ready to share:

- Project Name
- Location
- Product
- Installing Customer Contact
- Design Professional Contact

## SEISMIC TESTED SYSTEMS

Product	Installation Detail	Product	Installation Detail
Axiom® Building Perimeters	Perimeter Pocket with Horizontal Diffuser Perimeter Pocket with Vertical Diffuser	Seismic	Category C Installation per Code Category D, E & F Installation per Code Seismic Corridor with 8" Gusset Seismic Corridor with 12" Gusset Seismic Joint Clip Main Beam (SJM15) Fully Loaded Seismic Joint Clip Main Beam (SJM9) Fully Loaded Seismic Joint Main Beam Splice Seismic Separation Joint on Prelude® XL® Seismic Separation Joint on Suprafine® XL® STAC – Single Tee Adapter Clip
Canopies	Capz™ Infusions® Hills & Valleys Infusions (Grouped) MetalWorks™ Canopies MetalWorks Wings Optima® Canopies SoundScapes® Canopies WoodWorks® Canopies	Seismic Rx®	BERC2 45-degrees to the Wall on Prelude XL BERC2 Fully Loaded on Prelude XL BERC2 on 7897 Shadow Molding with Ultima® Vector® Panels BERC2 on Interlude® XL® HRC BERC2 on Interlude XL HRC with Lights & Sprinklers BERC2 on Silhouette® XL® with Diffusers & Sprinklers BERC2 with Prelude XL Intermediate-duty BERC2 with Suprafine XL ALBERC2 Prelude XL – Alternate Category C
Clouds and Vertical Elements	72" x 72", 144" x 144", and 168" x 168" Formations™ – Planks 12" Axiom® Floating trim 2-sides with Prelude® XL® ID 12" Axiom® Floating Cloud with Prelude XL ID 6" Axiom® Floating trim 2-sides with Prelude XL ID 6" Axiom® Floating Cloud with Prelude XL ID 16" Axiom® trim Infusions® Blades™ Infusions® Shapes Formations Curves & with Integrated Lighting MetalWorks™ Blades™ Serpentina® Classic Serpentina® Vault Serpentina® Waves™ SoundScapes® Blades™ SoundScapes® Shapes	Standard T-Bar Suspension System	DC FlexZone™ Fully Loaded Metaphors® Optima Radial Ceiling Optima® Vector® Optima® Vector® 24" x 96" Planks Optima® Vector® 48" x 48" Panels Prelude® XL Fire Rated Prelude® XL Intermediate-duty Prelude® XL to Black Iron NYC Prelude® XL Max® Shiplap Full Room Silhouette® XL with Shadow Molding Sloped Ceiling Suprafine® XL® Installation per Code Tectum Square Lay-in & Tegular Tectum Canopies TechZone® Ceiling Systems Ultima® Beveled Tegular Ultima® Vector®
Corridors	Acoustical Locking Angle Molding with 8" and 12" Gusset Acoustical Locking Angle Molding with Fiberglass Panels Acoustical Locking Angle Molding with Mineral Fiber Panels ShortSpan® Corridor System with Gusset SingleSpan™ Acoustical Corridor Suspension System	WoodWorks®	Access™ Canopies Grille Linear Curved Linear Flat Tegular on Prelude XL Vector on Prelude XL
Drywall Systems	6' DGS Tees Drywall Grid System QuikStix™ Locking Pocket Main ShortSpan 6', 7', 14', 20' QuikStix Soffits	Other	Capz™ Altitudes® Torsion Spring Axiom® Transitions Axiom® Glazing Channel Axiom® Light Covers XAL LENO with lighting connector bracket
MetalWorks™	DH700 Faceted Tegular and Vector® Fastrack 3", 6", and 12" Flush Tegular on Prelude XL Linear Curved and Flat Open Cell 4" and 8" Planks RH200 RH200 Cantilevered Curved RH215 Curved RH215 Clip-on Square Tegular on Prelude XL Standard Planks Tartan 3" Tartan 6" with Mega Panels and Planks Torsion Spring Vector® on Prelude® 15/16" suspension system Wings		

# CEILINGS

## Item Number Index

Service Category	Service Level	Availability	Details
<b>Made-To-Stock Items (bold face type)</b>	A	5-10 days	Item numbers noted in BOLD on this index
Made-To-Order Items (not inventoried)	C	20-30 days	–
Special Made-To-Order Items (not inventoried)	S	30 days plus	Minimum quantities and setup charges apply
Metric Items	–	30 days plus	Minimum quantities apply

### CEILING PRODUCTS

Item No.	SF*/CTN	Available as Made-to-Order	Page No.	Item No.	SF*/CTN	Available as Made-to-Order	Page No.	Item No.	SF*/CTN	Available as Made-to-Order	Page No.
100001	12 pcs		138-141	100240	6 pcs		142-143	1491	64	✓	281-282
100002	12 pcs		138-141	100241	6 pcs		142-143	1492	64	✓	281-282
100003	6 pcs		138-141	100244	8 pcs		142-143	1493	64	✓	281-282
100004	24 pcs		138-141	100245	8 pcs		142-143	1494	64	✓	281-282
100005	12 pcs		138-141	100300	12 pcs		148-150	1495	64	✓	281-282
100006	24 pcs		138-141	100301	12 pcs		148-150	<b>1713</b>	<b>12 pcs</b>	✓	<b>177, 201, 209, 231, 253, 315, 370-371, 395, 397</b>
100007	24 pcs		138-141	100303	24 pcs		148-150	<b>1713BL</b>	<b>14 pcs</b>	✓	<b>227, 239, 253, 315, 370-371</b>
100008	24 pcs		138-141	100304	12 pcs		148-150	<b>1714</b>	<b>8 pcs</b>	✓	<b>209, 315, 370-371</b>
100009	12 pcs		138-141	100305	12 pcs		148-150	<b>1715</b>	<b>48</b>	✓	<b>298-299</b>
100010	6 pcs		138-141	100306	12 pcs		148-150	<b>1716</b>	<b>48</b>	✓	<b>298-299</b>
100011	12 pcs		138-141	100307	24 pcs		148-150	<b>1717</b>	<b>48</b>	✓	<b>316-319, 370-371</b>
100012	12 pcs		138-141	100309	6 pcs		148-150	<b>1719</b>	<b>48</b>	✓	<b>316-319, 370-371</b>
100013	6 pcs		138-141	100310	8 pcs		148-150	<b>1720</b>	<b>48</b>	✓	<b>298-299</b>
100014	12 pcs		138-141	100313	8 pcs		148-150	<b>1721</b>	<b>64</b>	✓	<b>298-299</b>
100015	12 pcs		138-141	100314	8 pcs		148-150	<b>1728</b>	<b>64</b>	✓	<b>312-313</b>
100016	12 pcs		138-141	100315	10 pcs		148-150	<b>1728BL</b>	<b>16 pcs</b>		<b>209</b>
100017	12 pcs		138-141	100316	10 pcs		148-150	<b>1729</b>	<b>96</b>		<b>312-313</b>
100018	6 pcs		138-141	10225HV	Bulk		100-101	<b>1732</b>	<b>64</b>		<b>316-319</b>
100019	6 pcs		138-141	1030HV	Bulk		100-101	1733	80		316-319
100020	24 pcs		138-141	10375HV	Bulk		100-101	<b>1734</b>	<b>64</b>	✓	<b>316-319</b>
100021	24 pcs		138-141	1045HV	Bulk		100-101	1736	100		312-313
100022	12 pcs		138-141	10525HV	Bulk		100-101	1737	100	✓	312, 314
100023	12 pcs		138-141	1060HV	Bulk		100-101	1738	75	✓	312, 314
100100	6 pcs		134-137	1075HV	Bulk		100-101	<b>1752</b>	<b>64</b>	✓	<b>322-323</b>
100101	12 pcs		134-137	1090HV	Bulk		100-101	<b>1753</b>	<b>64</b>	✓	<b>322-323</b>
100102	6 pcs		134-137	10STR	Bulk		100-101	<b>1754</b>	<b>40</b>		<b>312-313</b>
100103	24 pcs		134-137	1212WH	48		122-123	1755	48		312-313
100104	6 pcs		134-137	1212BL	48		122-123	<b>1756</b>	<b>40</b>		<b>316-319</b>
100105	6 pcs		134-137	1212FP	48		122-123	1757	48		316-319
100106	6 pcs		134-137	1400	24	✓	344-347	<b>1758</b>	<b>40</b>		<b>316-319</b>
100107	24 pcs		134-137	1402	24	✓	348-353	1759	48		316-319
100108	6 pcs		134-137	1403	24	✓	348-353	<b>1760</b>	<b>80</b>		<b>320</b>
100109	8 pcs		134-137	1404	30	✓	344-347	<b>1761</b>	<b>80</b>		<b>320</b>
100110	12 pcs		134-137	1406	30	✓	348-353	1762	80		320
100111	4 pcs		134-137	1407	30	✓	348-353	1765	80		320
100112	6 pcs		134-137	1409	96	✓	348-353	<b>1766</b>	<b>80</b>		<b>320</b>
100113	6 pcs		134-137	1410	16	✓	348-353	<b>1772</b>	<b>64</b>	✓	<b>306-307</b>
100114	12 pcs		134-137	1411	20	✓	348-353	<b>1773</b>	<b>64</b>	✓	<b>306-307</b>
100115	12 pcs		134-137	1412	6	✓	348-353	1773HRC	64	✓	306-307
100116	24 pcs		134-137	1413	6	✓	348-353	<b>1774</b>	<b>64</b>	✓	<b>306, 308</b>
100117	24 pcs		134-137	1414	48	✓	348-353	1774HRC	64	✓	306, 308
100118	6 pcs		134-137	1415	21	✓	348-353	<b>1775</b>	<b>64</b>	✓	<b>306, 308</b>
100119	6 pcs		134-137	1417	27	✓	348-353	1775HRC	64	✓	306, 308
100200	12 pcs		144-147	1420	24	✓	376-379	1776	64	✓	306, 308
100201	12 pcs		144-147	1422	24	✓	380-383	1776HRC	64	✓	306, 308
100202	6 pcs		144-147	1423	24	✓	380-383	1777	64	✓	306, 308
100203	24 pcs		144-147	1425	24	✓	376-379	1777HRC	64	✓	306, 308
100204	12 pcs		144-147	1427	24	✓	380-383	1796	67	✓	306-307
100205	24 pcs		144-147	1431	62.5	✓	380-383, 418-419	1798	50	✓	306-307
100206	24 pcs		144-147	1432	60	✓	376-379	1810	48	✓	312, 315, 370-371
100207	24 pcs		144-147	1433	60	✓	380-383	<b>1811</b>	<b>64</b>	✓	<b>312, 315, 370-371</b>
100208	12 pcs		144-147	1434	60	✓	380-383	<b>1820</b>	<b>48</b>	✓	<b>316-319, 370-371</b>
100209	6 pcs		144-147	1435	72	✓	376-379	1821	48	✓	316-319, 370-371
100210	12 pcs		144-147	1436	72	✓	380-383	1824	64	✓	316-319, 370-371
100211	12 pcs		144-147	1437	72	✓	380-383	<b>1830</b>	<b>64</b>	✓	<b>312, 314</b>
100212	6 pcs		144-147	<b>1445</b>	<b>40</b>	✓	<b>386-387</b>	1831	64		312-313
100213	12 pcs		144-147	<b>1446</b>	<b>40</b>	✓	<b>388-389</b>	1833	48		316-319
100214	12 pcs		144-147	<b>1447</b>	<b>40</b>	✓	<b>388-389</b>	1834	64	✓	316-319
100215	12 pcs		144-147	<b>1448</b>	<b>40</b>	✓	<b>386-387</b>	1835	48	✓	316-319
100216	12 pcs		144-147	1462	16	✓	344-347	1850	48	✓	306-307
100217	6 pcs		144-147	1463	20	✓	344-347	1851	64	✓	306-307
100218	6 pcs		144-147	1466	24	✓	354-355	<b>1852</b>	<b>48</b>	✓	<b>306, 308</b>
100219	24 pcs		144-147	1467	42	✓	354-355	<b>1853</b>	<b>48</b>	✓	<b>306, 308</b>
100220	24 pcs		144-147	1490	64		283-284	1894	80	✓	380-383
100221	12 pcs		144-147	<b>1491</b>	<b>64</b>		<b>283-284</b>	1895	48	✓	380-383
100222	12 pcs		144-147	<b>1492</b>	<b>64</b>		<b>283-284</b>	1900	48	✓	376-379
100225	8 pcs		142-143	1493	64		283-284	1901	48		380-383
100227	12 pcs		142-143	<b>1494</b>	<b>64</b>		<b>283-284</b>				
100231	12 pcs		142-143	1495	64		283-284				
100235	6 pcs		142-143	1490	64	✓	281-282				

REFERENCE – ITEM NUMBER INDEX



# CEILINGS

## Item Number Index

CEILING PRODUCTS • SF per carton unless otherwise noted

Packaging information is subject to change.  
Before specifying or ordering, contact TechLine at 1 877 276-7876.

Item No.	SF*/CTN	Available as Made-to-Order	Page No.	Item No.	SF*/CTN	Available as Made-to-Order	Page No.	Item No.	SF*/CTN	Available as Made-to-Order	Page No.
1902	48		380-383	2821	48	✓	274-275	3252PB	96	✓	348-353, 418-419
1903	48	✓	376-379	2822	40	✓	276-277	3253	32	✓	348-353
1904	48		380-383	2822BK	40	✓	276-277	3254	32.5	✓	348-353
1905	62.5	✓	380-383, 418-419	2823	48	✓	276-277	3255	96	✓	348-353
1905HRC	62.5	✓	380-383	<b>2824</b>	<b>40</b>	✓	<b>276, 278, 417-419</b>	3255PB	96	✓	348-353
1906	48		380-383	2825	48	✓	276, 278,	3256	96	✓	348-353
<b>1910</b>	<b>48</b>	✓	<b>376-379</b>	<b>2854</b>	<b>50</b>	✓	<b>274-275</b>	3256PB	96	✓	348-353, 418-419
1910HRC	48	✓	376-379	<b>2857</b>	<b>80</b>	✓	<b>274-275</b>	3257	96	✓	348-353
<b>1911</b>	<b>48</b>	✓	<b>380-383</b>	<b>2855</b>	<b>50</b>	✓	<b>274-277</b>	3257PB	96	✓	348-353
1911HRC	48	✓	380-383	<b>2856</b>	<b>50</b>	✓	<b>276, 278</b>	3258	75	✓	348-353
<b>1912</b>	<b>48</b>	✓	<b>380-383, 418-419</b>	<b>2858</b>	<b>80</b>	✓	<b>276-277</b>	3259	75	✓	348-353
<b>1912HRC</b>	<b>48</b>	✓	<b>380-383</b>	<b>2859</b>	<b>80</b>	✓	<b>276, 278</b>	<b>3261</b>	<b>72</b>	✓	<b>348-353</b>
<b>1913</b>	<b>48</b>	✓	<b>376-379</b>	<b>2864</b>	<b>72</b>	✓	<b>274-275</b>	3261PB	72	✓	348-353
1913HRC	48	✓	376-379	<b>2865</b>	<b>72</b>	✓	<b>276-277</b>	<b>3262</b>	<b>96</b>	✓	<b>348-353</b>
1914	48	✓	380-383	<b>2866</b>	<b>72</b>	✓	<b>276, 278</b>	3262PB	96	✓	348-353
1914HRC	48	✓	380-383	2904	128	✓	369	3263	48	✓	348-353
1915	48	✓	380-383	<b>2905</b>	<b>128</b>	✓	<b>369</b>	3264	48	✓	348-353
1915HRC	48	✓	380-383	<b>2906</b>	<b>128</b>	✓	<b>369</b>	3265	100	✓	348-353
1916	24	✓	380-383	<b>2907</b>	<b>128</b>	✓	<b>369</b>	3265PB	100	✓	348-353
1917	24	✓	380-383	2908	128	✓	368	3266	62.22	✓	348-353
<b>1918</b>	<b>22.5</b>		<b>342-343</b>	2909	128	✓	368	3268	70	✓	348-353
<b>1920</b>	<b>48</b>	✓	<b>384-385</b>	<b>2910</b>	<b>128</b>	✓	<b>368</b>	3269	93.33	✓	348-353
1921	24	✓	384-385	<b>2911</b>	<b>128</b>	✓	<b>368</b>	3276	75	✓	348-353
1929	68	✓	380-383	2968	128	✓	366-367	3277	100	✓	348-353
1929HRC	48	✓	380-383	2970	120	✓	366-367	3278	100	✓	348-353
<b>1935</b>	<b>48</b>	✓	<b>386-387</b>	2983	128	✓	366-367	3279	42	✓	348-353
<b>1936</b>	<b>48</b>	✓	<b>388-389</b>	2988	80	✓	366-367	3280	84	✓	404
<b>1937</b>	<b>48</b>	✓	<b>388-389</b>	2989	80	✓	366-367	3281	72	✓	348-353
<b>1938</b>	<b>48</b>	✓	<b>386-387</b>	<b>301</b>	<b>64</b>	✓	<b>374-375</b>	3282	96	✓	348-353
1940	40	✓	376-379	<b>302</b>	<b>64</b>	✓	<b>374-375</b>	3283	57.5	✓	348-353
1941	40	✓	380-383	<b>303</b>	<b>48</b>	✓	<b>374-375</b>	3284	90	✓	348-353
1942	40	✓	380-383, 418-419	304	48	✓	374-375	3285	100	✓	348-353
1942HRC	40	✓	380-383	305	64	✓	374-375	3286	100	✓	348-353
1943	48	✓	376-379	3101	128	✓	364-365	3287	112	✓	348-353
1944	48	✓	380-383	3102	96	✓	364-365	3288	117.33	✓	348-353
1945	48	✓	380-383	3103	96	✓	364-365	3289	93.33	✓	348-353
1951	48	✓	380-383	3104	128	✓	364-365	3290	48	✓	348-353
1952	48	✓	380-383	<b>3114PB</b>	<b>48</b>		<b>358-359</b>	3314	32	✓	358-359
1980	72	✓	376-379	<b>3115PB</b>	<b>96</b>	✓	<b>358-359</b>	3315	96	✓	358-359
<b>1981</b>	<b>72</b>	✓	<b>380-383</b>	<b>3150</b>	<b>128</b>	✓	<b>344-347</b>	3316	32	✓	360-361
<b>1982</b>	<b>72</b>	✓	<b>380-383</b>	3150PB	128	✓	344-347	3317	64	✓	360-361
1984	80	✓	376-379	<b>3151</b>	<b>128</b>	✓	<b>344-347</b>	3352	96	✓	344-347
1985	80	✓	380-383	3151PB	128	✓	344-347	3353	96	✓	344-347
1986	80	✓	380-383	<b>3152</b>	<b>96</b>	✓	<b>344-347</b>	3354	48	✓	348-353
1990	24	✓	376-379	3152PB	96	✓	344-347	3355	48	✓	348-353
1991	30	✓	376-379	<b>3153</b>	<b>96</b>		<b>344-347</b>	3356	64	✓	344-347
1992	36	✓	376-379	3153PB	96	✓	344-347	<b>3900</b>	<b>48</b>	✓	<b>354-355</b>
1993	24	✓	380-383	3154	128	✓	344-347	3900PB	48	✓	354-355
1994	30	✓	380-383	3155	64	✓	344-347	3901	48	✓	354-355
1995	36	✓	380-383	3156	100	✓	344-347	3902	48	✓	354-355
1996	24	✓	380-383	3157	100	✓	344-347	3902PB	48	✓	354-355
1997	30	✓	380-383	3158	75	✓	344-347	3903	48	✓	354-355
1998	36	✓	380-383	3159	64	✓	344-347	3903PB	48	✓	354-355
<b>2195</b>	<b>64</b>	✓	<b>300-301</b>	3160	96	✓	344-347	<b>3904</b>	<b>75</b>	✓	<b>354-355</b>
<b>2600</b>	<b>48</b>		<b>324-325</b>	3160PB	96	✓	344-347	<b>3905</b>	<b>75</b>	✓	<b>354-355</b>
<b>2602</b>	<b>48</b>		<b>324-325</b>	3161	96	✓	344-347	3906	73	✓	354-355
<b>2711</b>	<b>80</b>		<b>309</b>	3162	128	✓	344-347	3907	96	✓	354-355
<b>2712</b>	<b>80</b>		<b>309</b>	3164	100	✓	344-347	3908	96	✓	354-355
<b>2722</b>	<b>80</b>		<b>309</b>	3200	48	✓	364-365	3908PB	96	✓	354-355
<b>2758</b>	<b>64</b>		<b>300-301</b>	3201	48	✓	364-365	3909	64	✓	354-355
<b>2765</b>	<b>64</b>		<b>300-301</b>	<b>3214PB</b>	<b>48</b>	✓	<b>360-361</b>	<b>3930</b>	<b>72</b>	✓	<b>119-120</b>
<b>2767</b>	<b>80</b>		<b>300-301</b>	<b>3215PB</b>	<b>96</b>	✓	<b>360-361</b>	3931	96	✓	119-120
<b>2776</b>	<b>60</b>		<b>300-301</b>	<b>3216PB</b>	<b>48</b>	✓	<b>360-361</b>	<b>3932</b>	<b>64</b>	✓	<b>119-120</b>
<b>2814</b>	<b>40</b>		<b>280-281</b>	<b>3217PB</b>	<b>96</b>	✓	<b>360-361</b>	3932BL	64	✓	119-120
<b>2815</b>	<b>48</b>	✓	<b>280-281</b>	3249	96	✓	348-353	3933	128	✓	119-120
2818		✓	417	<b>3250</b>	<b>48</b>	✓	<b>348-353</b>	3934	96	✓	119-120
2820	10 pcs		177, 201, 209, 231, 253, 274-275	3250PB	48	✓	348-353	3935	80	✓	119-120
2820BK	10 pcs	✓	227, 239, 253, 274-275	<b>3251</b>	<b>48</b>	✓	<b>348-353</b>	3936	72	✓	119-120
2820BL	40	✓	209	3251PB	48	✓	348-353, 418-419	4075HV	Bulk	✓	100-101
				3252	96	✓	348-353	415HV	Bulk	✓	100-101

REFERENCE - ITEM NUMBER INDEX

# CEILINGS

## Item Number Index

### CEILING PRODUCTS

Service Category	Service Level	Availability	Details
<b>Made-To-Stock Items (bold face type)</b>	A	5-10 days	Item numbers noted in BOLD on this index
Made-To-Order Items (not inventoried)	C	20-30 days	-
Special Made-To-Order Items (not inventoried)	S	30 days plus	Minimum quantities and setup charges apply
Metric Items	-	30 days plus	Minimum quantities apply

Item No.	SF*/CTN	Available as Made-to-Order	Page No.	Item No.	SF*/CTN	Available as Made-to-Order	Page No.	Item No.	SF*/CTN	Available as Made-to-Order	Page No.
4225HV	Bulk		100-101	5406W5	16		224-227	5672	Bulk		241
430HV	Bulk		100-101	5406W6	16		224-227	5674	Bulk		241
<b>435</b>	<b>50 pcs</b>		<b>407</b>	5415W1	8 pcs		227, 252	5675	Bulk		241
4375HV	Bulk		100-101	5419W1	4 pcs		227, 252	568	48	✓	288-289
<b>440A</b>	<b>Bulk</b>		<b>385</b>	<b>5440</b>	<b>16</b>		<b>110-113</b>	5687	250 pcs		241, 245
<b>441</b>	<b>50 pcs</b>		<b>337, 339, 355, 357</b>	<b>5441</b>	<b>16</b>		<b>110-113</b>	5688	250 pcs		241
<b>442A</b>	<b>50 pcs</b>		<b>252-253, 281, 337, 339, 355, 357, 385</b>	<b>5442</b>	<b>16</b>		<b>110-113</b>	5692	16		110-113
<b>443</b>	<b>50 pcs</b>		<b>281</b>	<b>5443</b>	<b>16</b>		<b>110-113</b>	5693	16		110-113
445HV	Bulk		100-101	<b>5444</b>	<b>16</b>		<b>110-113</b>	5694	16		110-113
4525HV	Bulk		100-101	<b>5445</b>	<b>16</b>		<b>110-113</b>	<b>572</b>	<b>40</b>	✓	<b>288, 290-291</b>
460HV	Bulk		100-101	5448	24		110-113	5725	20		342-343
465	64		312-313	5449	32		110-113	5726	20		342-343
<b>466</b>	<b>96</b>	✓	<b>312, 314</b>	<b>5450</b>	<b>1-kit</b>		<b>112-113</b>	5727	20		342-343
475HV	Bulk		100-101	<b>5451</b>	<b>1-kit</b>		<b>112-113</b>	5728	20		342-343
490HV	Bulk		100-101	<b>5452</b>	<b>1-kit</b>		<b>112</b>	5729	20		342-343
4STR	Bulk		100-101	<b>5453</b>	<b>1-kit</b>		<b>112-113</b>	574	48	✓	286-287
510	48		294-295	<b>5454</b>	<b>1-kit</b>		<b>112</b>	574HRC	48	✓	286-287
<b>511</b>	<b>48</b>		<b>294-295</b>	<b>5455</b>	<b>1-kit</b>		<b>112-113</b>	<b>576</b>	<b>40</b>	✓	<b>288, 290-291</b>
512	48		294-295	<b>5479</b>	<b>12 pcs</b>		<b>177, 179, 183, 209, 227, 237, 247, 253</b>	577	48	✓	288, 290-291
<b>513</b>	<b>48</b>		<b>294-295</b>	5488P1WH	32		196-197	578	48	✓	288, 290-291
<b>514</b>	<b>48</b>		<b>294-295</b>	5488P4WH	32		196-197	<b>5790</b>	<b>48 pcs</b>		<b>280-281, 337, 355, 385</b>
<b>522</b>	<b>50 pcs</b>		<b>281, 337, 339, 355, 357</b>	5490	43		184-187	<b>5791</b>	<b>48 pcs</b>		<b>280-281, 337, 355, 385</b>
533	48	✓	286-287	5491	53		184-187	<b>5792</b>	<b>48 pcs</b>		<b>280-281, 337, 355, 385</b>
533HRC	48	✓	286-287	5492	43		184-187	<b>5793</b>	<b>48 pcs</b>		<b>280-281, 337, 355, 385</b>
<b>5330</b>	<b>4 pcs</b>		<b>195-196</b>	5493	53		184-187	581	48	✓	288, 290-291
<b>5331</b>	<b>4 pcs</b>		<b>195-196</b>	5494	16 pcs		187	<b>5823</b>	<b>12 pcs</b>		<b>153, 177, 179, 181, 183, 199, 201, 208, 209, 227, 232, 237, 239, 247, 251, 253</b>
<b>5332</b>	<b>4 pcs</b>		<b>195-196</b>	5495	50 pcs		187	583	48	✓	288, 290-291
<b>5333</b>	<b>4 pcs</b>		<b>195-196</b>	5496	50 pcs	✓	187	<b>584</b>	<b>48</b>	✓	<b>288, 290-291</b>
5335	10 pcs		195	551	48	✓	288-289	<b>584HRC</b>	<b>48</b>	✓	<b>288, 290-291</b>
5336	5 pcs		195	<b>556</b>	<b>40</b>		<b>288-289</b>	5843	100 pcs		248-249
<b>5337</b>	<b>100 pcs</b>		<b>195</b>	<b>557</b>	<b>48</b>		<b>292-293</b>	<b>585</b>	<b>48</b>		<b>292-293</b>
534	40	✓	288, 290-291	5570	48		184-187	<b>589</b>	<b>48</b>	✓	<b>288, 290-291</b>
5342	6 pcs		177, 179, 209	5571	48	✓	184-187	589HRC	48	✓	288, 290-291
5344	6 pcs		177, 179, 209	5582	50 pcs		187	590	48		292-293
5346	6 pcs		177, 179, 187, 209	5583	50 pcs		187	5900CW7	3.7		234-235
<b>535</b>	<b>48</b>	✓	<b>288, 290-291</b>	<b>5588</b>	<b>1-kit</b>		<b>112-113</b>	5900CW8	3.7		234-235
535HRC	48	✓	288, 290-291	5594	Bulk		187	5900CW9	3.6		234-235
538	40	✓	288, 290-291	5596	100 pcs		187	5901CW7	4.63		234-235
<b>5389</b>	<b>250 pcs</b>		<b>235</b>	5597	1 pc		187	5901CW8	4.63		234-235
<b>539</b>	<b>48</b>	✓	<b>288, 290-291</b>	5598	100 pcs		187	5901CW9	4.49		234-235
539HRC	48	✓	288, 290-291	5600	Bulk		210	5903W7	16		232-233
5396	Bulk		197	56001B1	4 OR 8		202-203	5903W8	16		232-233
5398	Bulk		197	56002B1	4 OR 8		202-203	5903W9	16		232-233
5401W1	16		228-229	56003B1	4 OR 8		202-203	5904W7	16		230-231
5401W2	16		228-229	56004B1	4 OR 8		202-203	5904W8	16		230-231
5401W3	16		228-229	56005B1	4 OR 8		202-203	5904W9	16		230-231
5401W4	16		228-229	56006B1	4 OR 8		202-203	<b>591</b>	<b>48</b>		<b>292-293</b>
5401W5	16		228-229	56007B1	4 OR 8		202-203	5911	6 pcs		260-263
5401W6	16		228-229	56008B1	4 OR 8		202-203	5912	3 pcs		260-263
5403W1	16		228-229	56009B1	4 OR 8		202-203	5913	2 pcs		260-263
5403W2	16		228-229	5600HDC	200		210	5914	4 pcs		260-263
5403W3	16		228-229	56051	Bulk		210	5915	4 pcs		260-263
5403W4	16		228-229	56052	Bulk		210	5918W1	Bulk		115
5403W5	16		228-229	56053	Bulk		210	5918W3	Bulk		115
5403W6	16		228-229	56054	Bulk		210	5919W1	Bulk		115
5404W1	16		224-227	56055	Bulk		210	5919W3	Bulk		115
5404W2	16		224-227	56056	Bulk		210	5920W1	Bulk		115
5404W3	16		224-227	<b>5629</b>	<b>1-kit</b>		<b>112</b>	5920W3	Bulk		115
5404W4	16		224-227	<b>5630</b>	<b>1-kit</b>		<b>112</b>	5921W1	Bulk		115
5404W5	16		224-227	<b>5631</b>	<b>1-kit</b>		<b>112</b>	5921W3	Bulk		115
5404W6	16		224-227	<b>5632</b>	<b>1-kit</b>		<b>112</b>	<b>5948</b>	<b>30 pcs</b>		<b>248-249</b>
54051	1 pc/ctn		98	<b>563</b>	<b>40</b>	✓	<b>286-287</b>	5965P1	8 pcs		197
54052	1 pc/ctn		98	5635	16		110-113	5965P4	8 pcs		197
54061	1 pc/ctn		98	5636	16		110-113	5976	Bulk		260-263
54062	1 pc/ctn		98	565	48	✓	286-287	5978	Bulk		260-263
5406W1	16		224-227	5650WH	Bulk		187	5979W1	Bulk		115
5406W2	16		224-227	5659W1	60		227, 252	5983	Bulk		236-237
5406W3	16		224-227	5660W1	60		227, 252				
5406W4	16		224-227	5671	Bulk		241, 245				

REFERENCE - ITEM NUMBER INDEX

# CEILINGS

## Item Number Index

CEILING PRODUCTS • SF per carton unless otherwise noted

Packaging information is subject to change.  
Before specifying or ordering, contact TechLine at 1 877 276-7876.

Item No.	SF*/CTN	Available as Made-to-Order	Page No.	Item No.	SF*/CTN	Available as Made-to-Order	Page No.	Item No.	SF*/CTN	Available as Made-to-Order	Page No.
5984	Bulk		236-237	64940M10			119, 121	685	64	✓	340-341
5985	Bulk		236-237	6510			224-227	<b>686</b>	<b>48</b>	✓	<b>340-341</b>
5986	50 pcs		237	6511			224-227	<b>687</b>	<b>48</b>	✓	<b>340-341</b>
<b>605</b>	<b>48</b>		<b>284-285</b>	6512			224-227	688	64		340-341
<b>607</b>	<b>48</b>		<b>284-285</b>	6513			405	690H/V	Bulk		100-101
<b>608</b>	<b>48</b>		<b>284-285</b>	6514			405	6STR	Bulk		100-101
<b>6091</b>	<b>50 pcs</b>		<b>227, 247</b>	6519			405	<b>7006</b>	<b>2 pcs</b>		<b>98-99</b>
<b>6096</b>	<b>50 pcs</b>		<b>177, 210</b>	6525H/V	Bulk		100-101	<b>703</b>	<b>80</b>		<b>300-301</b>
<b>6098</b>	<b>50 pcs</b>		<b>179, 210</b>	6541	13.5		342-343	<b>704</b>	<b>64</b>		<b>300-301</b>
<b>6099</b>	<b>50 pcs</b>		<b>177, 210</b>	660H/V	Bulk		100-101	<b>705</b>	<b>64</b>	✓	<b>321</b>
6128AM	Bulk		188-191	6603W1	6 pcs		237, 247, 252	7091	Bulk		240-243
6129AM	Bulk		188-191	6605	Bulk		80	7092	Bulk		240-243
6131AM	Bulk		188-191	6607	Bulk		80	7093	Bulk		240-243
6132AM	Bulk		188-191	6613	22.5		342-343	7094	Bulk		240-243
6133AM	Bulk		188-191	6614	22.5		342-343	7095	Bulk		240-243
6136AM	Bulk		188-191	6615	22.5		342-343	7096	Bulk		240-243
6137AM	Bulk		188-191	6616	22.5		342-343	7097	Bulk		240-243
6138AM	Bulk		188-191	6622	Bulk		250-251	7098	Bulk		240-243
6139AM	Bulk		188-191	6623	Bulk		250-251	7099	Bulk		240-243
615H/V	Bulk		100-101	6624	Bulk		250-251	7110	Bulk		180-181
<b>6188</b>	<b>40</b>		<b>192-193</b>	6625	Bulk		250-251	7111	Bulk		180-181
<b>6189</b>	<b>40</b>		<b>192-193</b>	6626	Bulk		250-251	7112	10 pcs		180-181
<b>6193</b>	<b>40</b>		<b>192-193</b>	662808	Bulk		238-239	7113	40 pcs		180-181
<b>6194</b>	<b>40</b>		<b>192-193</b>	662812	Bulk		238-239	7119	1 pc		180-181
6225H/V	Bulk		100-101	662912	Bulk		238-239	7120	1 pc		180-181
<b>625530</b>	<b>4 pcs</b>		<b>99</b>	663008	Bulk		238-239	<b>7121</b>	<b>1-kit</b>		<b>112</b>
6258	Bulk		108-109	663012	Bulk		238-239	<b>7123</b>	<b>300 pcs</b>		<b>237</b>
6259	Bulk		108-109	663112	Bulk		238-239	7125	10 pcs		199, 208-209
<b>626</b>	<b>48</b>		<b>292-293</b>	6640W1	Bulk		248-249	7131	6 pcs		208-209
6260	Bulk		108-109	6641	Bulk		156-157	7140	Bulk		180-181
6261	Bulk		108-109	6642	Bulk		156-157	7141	Bulk		180-181
628	48		292-293	6643	Bulk		156-157	7146	Bulk		239, 245, 252
630H/V	Bulk		100-101	6644	Bulk		156-157	7147	6 pcs		208-209
6375H/V	Bulk		100-101	6645	Bulk		156-157	7149	1 kit		99
<b>6408</b>	<b>1 pc</b>		<b>227, 237, 247, 252</b>	6646	Bulk		156-157	7154	Bulk		180-181
6410AM	Bulk		188-191	6647	Bulk		156-157	7155	Bulk		180-181
6411AM	Bulk		188-191	6648	Bulk		156-157	7156	Bulk		99
6412AM	Bulk		188-191	6649	Bulk		156-157	7157	Bulk		99
6413AM	Bulk		188-191	6650	Bulk		156-157	7158	Bulk		99
6414AM	Bulk		188-191	6656	6 pcs		183	7159	Bulk		99
6415AM	Bulk		188-191	<b>6657</b>	<b>10 pcs</b>		<b>245, 253</b>	7160	48		184-187
6416AM	Bulk		188-191	6660W1	Bulk		248-249	7161	48		184-187
6417AM	Bulk		188-191	6661B1L5	4		202-203	7162	50 pcs		187
6418AM	Bulk		188-191	6662B1L5	4		202-203	7163	50 pcs		187
6440W1	Bulk		248-249	6664	Bulk		182-183	7170	Bulk		241
6447W1	22.5		342-343	6665	Bulk		182-183	7171	Bulk		241
6448M1	22.5		342-343	6666	Bulk		182-183	7172	Bulk		241
6448M2	22.5		342-343	6667	Bulk		182-183	7190			74-79
645H/V	Bulk		100-101	6668	Bulk		182-183	7191			74-79
6459BL	25 pcs		241, 249, 253	6680	Bulk		232-233	7192			74-79
6460W1	Bulk		248-249	6681	Bulk		230-231	7193			74-79
<b>6461</b>	<b>64</b>		<b>174-177</b>	6682	Bulk		232-233	7194			74-79
<b>6462</b>	<b>64</b>		<b>174-177</b>	6683	Bulk		230-231	7195			74-79
6463	64		174-177	6684	Bulk		232-233	7202			72-73
<b>6464</b>	<b>64</b>		<b>174-177</b>	6685	Bulk		230-231	7203			72-73
6465	64		174-177	6686	Bulk		232-233	7209	Bulk		204-205
<b>6466M1</b>	<b>40</b>		<b>178-179</b>	6687	Bulk		230-231	7210	Bulk		204-205
<b>6466M2</b>	<b>40</b>		<b>178-179</b>	6688C	Bulk		234-235	7211	Bulk		204-205
<b>6466M3</b>	<b>40</b>		<b>178-179</b>	6689C	Bulk		234-235	7212	Bulk		204-205
6480	4		228-229	6690W1	Bulk		246-247	7213	Bulk		204-205
6482	8		228-229	6691W1	Bulk		246-247	7215	Bulk		198-199
6484	4		224-227	6692W1	Bulk		246-247	7216	Bulk		198-199
6485	6		224-227	<b>672</b>	<b>96</b>		<b>326-327</b>	7217	Bulk		198-199
6486	8		224-227	<b>673</b>	<b>64</b>		<b>326-327</b>	7219	Bulk		198-199
6487	12		224-227	675H/V	Bulk		100-101	7220	Bulk		200-201
<b>64901M10</b>			<b>119, 121</b>	<b>680</b>	<b>48</b>	✓	<b>340-341</b>	7220UP1	Bulk		200-201
<b>64902M10</b>			<b>119, 121</b>	<b>681</b>	<b>48</b>	✓	<b>340-341</b>	7220DN1	Bulk		200-201
64910M10			119, 121	<b>682</b>	<b>48</b>	✓	<b>340-341</b>	7220UP2	Bulk		200-201
64920M10			119, 121	683	64	✓	340-341	7220DN2	Bulk		200-201
64930M10			119, 121	684	64	✓	340-341	7220UP3	Bulk		200-201

REFERENCE - ITEM NUMBER INDEX

# CEILING

## Item Number Index

Service Category	Service Level	Availability	Details
<b>Made-To-Stock Items (bold face type)</b>	A	5-10 days	Item numbers noted in BOLD on this index
Made-To-Order Items (not inventoried)	C	20-30 days	–
Special Made-To-Order Items (not inventoried)	S	30 days plus	Minimum quantities and setup charges apply
Metric Items	–	30 days plus	Minimum quantities apply

### CEILING PRODUCTS

Item No.	SF*/CTN	Available as Made-to-Order	Page No.	Item No.	SF*/CTN	Available as Made-to-Order	Page No.	Item No.	SF*/CTN	Available as Made-to-Order	Page No.
7220DN3	Bulk		200-201	8156			72-73	8356PB	96	✓	332-335, 418-419
7220UP4	Bulk		200-201	8157			72-73	<b>8357PB</b>	<b>24</b>	✓	<b>332-335</b>
7220DN4	Bulk		200-201	8158	10 pcs		73	8359PB	75	✓	332-335, 418-419
7223	10 pcs		180-181	8159	50 pcs		187	<b>8360PB</b>	<b>24</b>	✓	<b>332-335</b>
7225	Bulk		204-205	815H/V	Bulk		100-101	<b>8360PBBK</b>	<b>24</b>	✓	<b>332-335</b>
7226	Bulk		204-205	<b>816</b>	<b>48</b>		<b>300-301</b>	<b>8361PB</b>	<b>48</b>	✓	<b>332-335, 418-419</b>
7237	50 pcs		187	8161	50 pcs		187	<b>8361PBBK</b>	<b>48</b>	✓	<b>332-335</b>
7239	50 pcs	183, 187, 210, 237, 245, 247, 249, 252, 492		<b>8173T10</b>	<b>36 pcs</b>		<b>124-125</b>	8365PB	100	✓	332-335
7240			74-79	<b>8174T10</b>	<b>72 pcs</b>		<b>124-125</b>	8370PB	96	✓	330-331
7241			74-79	<b>8175T10</b>	<b>72 pcs</b>		<b>124-125</b>	<b>8372PB</b>	<b>96</b>	✓	<b>330-331</b>
7242			74-79	8176W1	Bulk		244-245	<b>8372PBBK</b>	<b>96</b>	✓	<b>330-331</b>
7243			74-79	8177W1	Bulk		244-245	<b>8373PB</b>	<b>96</b>	✓	<b>330-331</b>
7244			74-79	<b>8178T10</b>			<b>394-395</b>	8375H/V	Bulk		100-101
7245			74-79	<b>8178T20</b>			<b>394-395</b>	8376PB	75	✓	332-335
7246			74-79	<b>8180T10</b>	<b>36 pcs</b>		<b>124-125</b>	8377PB	48	✓	332-335
7247			74-79	<b>8181T10</b>	<b>72 pcs</b>		<b>124-125</b>	8379PB	48	✓	332-335
7248			74-79	<b>8182T10</b>	<b>72 pcs</b>		<b>124-125</b>	8381PB	72	✓	332-335
7249			74-79	<b>8183T10</b>	<b>4 pcs</b>		<b>394-395</b>	8382PB	96	✓	332-335
7251M1			405	<b>8184T10</b>	<b>8 pcs</b>		<b>394-395</b>	8385PB	100	✓	332-335
7252M1			405	<b>8185T10</b>	<b>4 pcs</b>		<b>396-397</b>	<b>84008</b>	<b>1 pc</b>		<b>177, 179, 210</b>
7255M1			405	<b>8186T10</b>	<b>8 pcs</b>		<b>396-397</b>	8430	75	✓	338-339
7256M1			405	<b>8187L16</b>	<b>1000 pcs</b>		<b>125</b>	8431	72	✓	338-339
7257M1			405	<b>8188L16</b>	<b>1000 pcs</b>		<b>125</b>	8432	96	✓	338-339
7258M1			405	<b>8189L22</b>	<b>500 pcs</b>		<b>125</b>	8433	96	✓	338-339
7259M1			405	8190AM	Bulk		188-191	8434	64	✓	338-339
7260M1			405	8191AM	Bulk		188-191	845H/V	Bulk		100-101
7261M1			405	8192AM	Bulk		188-191	8450PB	72	✓	330-331
7262M1			405	8193AM	Bulk		188-191	8452PB	75	✓	330-331
7263	Bulk		240-243	8194AM	Bulk		188-191	8453PB	100	✓	330-331
7264	Bulk		240-243	8195AM	Bulk		188-191	8461PB	70	✓	332-335
7265	Bulk		240-243	8196AM	Bulk		188-191	8462PB	112	✓	332-335
7266	Bulk		240-243	8197AM	Bulk		188-191	8463PB	117	✓	332-335
734	80		305	8198AM	Bulk		188-191	8466PB	70	✓	332-335
735	64		305	8199AM	Bulk		188-191	<b>8494</b>	<b>48</b>	✓	<b>336-337</b>
737	64		305	8200AM	Bulk		188-191	<b>8495</b>	<b>96</b>	✓	<b>336-337</b>
<b>741</b>	<b>40</b>		<b>310-311</b>	<b>8200T10</b>	<b>12 pcs</b>		<b>100, 104, 153, 177, 179, 181, 183, 197, 199, 201, 203, 208, 209, 227, 231, 237, 247, 253, 528</b>	8496	72	✓	336-337
<b>746</b>	<b>49</b>		<b>310-311</b>	8201AM	Bulk		188-191	8497	96	✓	336-337
747	64		300-301	8202AM	Bulk		188-191	8498	75	✓	336-337
<b>755</b>	<b>96</b>	✓	<b>321</b>	282-283	Bulk		188-191	<b>8499</b>	<b>64</b>	✓	<b>336-337</b>
<b>756</b>	<b>64</b>	✓	<b>321</b>	8225	Bulk		156-157	8525H/V	Bulk		100-101
<b>763</b>	<b>96</b>	✓	<b>322-323</b>	8225H/V	Bulk		100-101	8534	75	✓	356-357
<b>764</b>	<b>64</b>	✓	<b>322-323</b>	8226	Bulk		156-157	8535	72	✓	356-357
<b>769</b>	<b>96</b>		<b>300-301</b>	8227	Bulk		156-157	8536	96	✓	356-357
<b>770</b>	<b>64</b>		<b>300-301</b>	8228	Bulk		156-157	8537	96	✓	356-357
<b>772</b>	<b>100</b>		<b>300-301</b>	8229	Bulk		156-157	8538	64	✓	356-357
<b>773</b>	<b>100</b>		<b>300-301</b>	<b>823</b>	<b>48</b>		<b>300-301</b>	8539	64	✓	356-357
791	75	✓	322-323	<b>824</b>	<b>64</b>		<b>300-301</b>	<b>860</b>	<b>64</b>	✓	<b>271</b>
<b>793</b>	<b>96</b>	✓	<b>322-323</b>	8284M1	Bulk		152-155	860H/V	Bulk		100-101
<b>794</b>	<b>64</b>	✓	<b>322-323</b>	8285M1	Bulk		152-155	<b>861</b>	<b>64</b>	✓	<b>271</b>
<b>795</b>	<b>64</b>	✓	<b>322-323, 370-371</b>	8287M1	Bulk		152-155	<b>868</b>	<b>48</b>	✓	<b>298-299</b>
<b>796</b>	<b>48</b>	✓	<b>322-323, 370-371</b>	8288M1	Bulk		152-155	869	48		298-299
8005	48		324-325	8290M1	Bulk		152-155	<b>870</b>	<b>64</b>		<b>298-299</b>
8006	48		324-325	8292M1	Bulk		152-155	871	64		298-299
8007	48		324-325	8293M1	Bulk		152-155	8730PB	24	✓	332-335
<b>8008</b>	<b>48</b>		<b>372-373</b>	8296M1	Bulk		152-155	8731PB	24	✓	332-335
<b>8009</b>	<b>32</b>		<b>372-373</b>	830H/V	Bulk		100-101	8732PB	24	✓	330-331
<b>8010</b>	<b>32</b>		<b>372-373</b>	8334PB	16	✓	330-331	8748PB	24	✓	332-335
<b>8011</b>	<b>48</b>		<b>328-329</b>	8335PB	20	✓	330-331	8749PB	24	✓	332-335
<b>8013</b>	<b>32</b>		<b>328-329</b>	8336PB	24	✓	330-331	8750PB	24	✓	332-335
8117W1	Bulk		244-245	8337PB	30	✓	330-331	8751PB	24	✓	332-335
8118W1	Bulk		244-245	8344PB	24	✓	332-335	8752PB	24	✓	330-331
8120	32		184-187	8345PB	24	✓	332-335	875H/V	Bulk		100-101
8121	32		184-187	8346PB	24	✓	332-335	890H/V	Bulk		100-101
8122	53		184-187	8347PB	24	✓	332-335	<b>895</b>	<b>64</b>	✓	<b>321</b>
8123	53		184-187	<b>8352PB</b>	<b>48</b>	✓	<b>332-335</b>	<b>896</b>	<b>64</b>	✓	<b>321</b>
8138	50 pcs		187	8355PB	24	✓	332-335	8STR	Bulk		100-101
8139	50 pcs		187					<b>FHDC</b>	<b>10 pcs</b>		<b>177, 210</b>
<b>815</b>	<b>48</b>	✓	<b>321</b>					FX4SPLICE	10 pcs		183, 227, 253
8155			72-73					FXSPLICE	10 pcs		210, 227, 253
								FXSPTHDC	10 pcs		177, 179, 210

REFERENCE – ITEM NUMBER INDEX

# CEILINGS

## Item Number Index

CEILING PRODUCTS • SF per carton unless otherwise noted

Packaging information is subject to change.  
Before specifying or ordering, contact TechLine at 1 877 276-7876.

Item No.	SF*/CTN	Available as Made-to-Order	Page No.	Item No.	SF*/CTN	Available as Made-to-Order	Page No.	Item No.	SF*/CTN	Available as Made-to-Order	Page No.
FXTBC	10 pcs	183, 210, 227, 253		S850	8	296-297		SV300812	1 kit	104-107	
FXVTBC	10 pcs	210, 227, 253		S851	8	296-297		SV301004	1 kit	104-107	
S290	48	296-297		S852	8	296-297		SV301006	1 kit	104-107	
S295	48	296-297		S853	8	296-297		SV301008	1 kit	104-107	
S400	8	296-297		S854	8	296-297		SV301010	1 kit	104-107	
S401	8	296-297		S855	8	296-297		SV301012	1 kit	104-107	
S410	8	296-297		SH300404	1 kit	104-107		SV301204	1 kit	104-107	
S411	8	296-297		SH300406	1 kit	104-107		SV301206	1 kit	104-107	
S412	8	296-297		SH300408	1 kit	104-107		SV301208	1 kit	104-107	
S413	8	296-297		SH300410	1 kit	104-107		SV301210	1 kit	104-107	
S414	8	296-297		SH300412	1 kit	104-107		SV301212	1 kit	104-107	
S420	8	296-297		SH300604	1 kit	104-107		SV450404	1 kit	104-107	
S421	8	296-297		SH300606	1 kit	104-107		SV450406	1 kit	104-107	
S450	8	296-297		SH300608	1 kit	104-107		SV450408	1 kit	104-107	
S451	8	296-297		SH300610	1 kit	104-107		SV450410	1 kit	104-107	
S460	8	296-297		SH300612	1 kit	104-107		SV450412	1 kit	104-107	
S461	8	296-297		SH300804	1 kit	104-107		SV450604	1 kit	104-107	
S462	8	296-297		SH300806	1 kit	104-107		SV450606	1 kit	104-107	
S463	8	296-297		SH300808	1 kit	104-107		SV450608	1 kit	104-107	
S464	8	296-297		SH300810	1 kit	104-107		SV450610	1 kit	104-107	
S470	8	296-297		SH300812	1 kit	104-107		SV450612	1 kit	104-107	
S471	8	296-297		SH301004	1 kit	104-107		SV450804	1 kit	104-107	
S500	8	296-297		SH301006	1 kit	104-107		SV450806	1 kit	104-107	
S501	8	296-297		SH301008	1 kit	104-107		SV450808	1 kit	104-107	
S502	8	296-297		SH301010	1 kit	104-107		SV450810	1 kit	104-107	
S503	8	296-297		SH301012	1 kit	104-107		SV450812	1 kit	104-107	
S510	8	296-297		SH301204	1 kit	104-107		SV451004	1 kit	104-107	
S512	8	296-297		SH301206	1 kit	104-107		SV451006	1 kit	104-107	
S550	8	296-297		SH301208	1 kit	104-107		SV451008	1 kit	104-107	
S551	8	296-297		SH301210	1 kit	104-107		SV451010	1 kit	104-107	
S552	8	296-297		SH301212	1 kit	104-107		SV451012	1 kit	104-107	
S553	8	296-297		SH450404	1 kit	104-107		SV451204	1 kit	104-107	
S560	8	296-297		SH450406	1 kit	104-107		SV451206	1 kit	104-107	
S562	8	296-297		SH450408	1 kit	104-107		SV451208	1 kit	104-107	
S600	8	296-297		SH450410	1 kit	104-107		SV451210	1 kit	104-107	
S601	8	296-297		SH450412	1 kit	104-107		SV451212	1 kit	104-107	
S602	8	296-297		SH450604	1 kit	104-107		SVLTSH2	1 kit	102-103	
S603	8	296-297		SH450606	1 kit	104-107		SVLTSH4	1 kit	102-103	
S604	8	296-297		SH450608	1 kit	104-107		SVLTSH6	1 kit	102-103	
S605	8	296-297		SH450610	1 kit	104-107		SW300804	1 kit	104-107	
S650	8	296-297		SH450612	1 kit	104-107		SW300806	1 kit	104-107	
S651	8	296-297		SH450804	1 kit	104-107		SW300808	1 kit	104-107	
S652	8	296-297		SH450806	1 kit	104-107		SW300810	1 kit	104-107	
S653	8	296-297		SH450808	1 kit	104-107		SW300812	1 kit	104-107	
S654	8	296-297		SH450810	1 kit	104-107		SW301204	1 kit	104-107	
S655	8	296-297		SH450812	1 kit	104-107		SW301206	1 kit	104-107	
S700	8	296-297		SH451004	1 kit	104-107		SW301208	1 kit	104-107	
S701	8	296-297		SH451006	1 kit	104-107		SW301210	1 kit	104-107	
S702	8	296-297		SH451008	1 kit	104-107		SW301212	1 kit	104-107	
S703	8	296-297		SH451010	1 kit	104-107		SW450804	1 kit	104-107	
S704	8	296-297		SH451012	1 kit	104-107		SW450806	1 kit	104-107	
S705	8	296-297		SH451204	1 kit	104-107		SW450808	1 kit	104-107	
S706	8	296-297		SH451206	1 kit	104-107		SW450810	1 kit	104-107	
S707	8	296-297		SH451208	1 kit	104-107		SW450812	1 kit	104-107	
S708	8	296-297		SH451210	1 kit	104-107		SW451204	1 kit	104-107	
S750	8	296-297		SH451212	1 kit	104-107		SW451206	1 kit	104-107	
S751	8	296-297		SV300404	1 kit	104-107		SW451208	1 kit	104-107	
S752	8	296-297		SV300406	1 kit	104-107		SW451210	1 kit	104-107	
S753	8	296-297		SV300408	1 kit	104-107		SW451212	1 kit	104-107	
S754	8	296-297		SV300410	1 kit	104-107		Z1910UC1	16	302-304	
S755	8	296-297		SV300412	1 kit	104-107		Z1912UC1	16	302-304	
S756	8	296-297		SV300604	1 kit	104-107		Z1920UC1	16	302-304	
S757	8	296-297		SV300606	1 kit	104-107		Z1935UC1	16	302-304	
S758	8	296-297		SV300608	1 kit	104-107		Z1936UC1	16	302-304	
S800	8	296-297		SV300610	1 kit	104-107		Z33520C1	16	302-304	
S801	8	296-297		SV300612	1 kit	104-107		Z39010C1	16	302-304	
S802	8	296-297		SV300804	1 kit	104-107					
S803	8	296-297		SV300806	1 kit	104-107					
S804	8	296-297		SV300808	1 kit	104-107					
S805	8	296-297		SV300810	1 kit	104-107					

# SUSPENSION SYSTEMS

## Item Number Index

Service Category	Service Level	Availability	Details
<b>Made-To-Stock Items (bold face type)</b>	A	5-10 days	Item numbers noted in BOLD on this index
Made-To-Order Items (not inventoried)	C	20-30 days	–
Special Made-To-Order Items (not inventoried)	S	30 days plus	Minimum quantities and setup charges apply
Metric Items	–	30 days plus	Minimum quantities apply

### SUSPENSION PRODUCTS

Item No.	LF/CTN	Available as Made-to-Order	Page No.	Item No.	LF/CTN	Available as Made-to-Order	Page No.	Item No.	LF/CTN	Available as Made-to-Order	Page No.	Item No.	LF/CTN	Available as Made-to-Order	Page No.
<b>414</b>	<b>100 pcs</b>		<b>253, 473</b>	<b>7445</b>	<b>100 pcs</b>		<b>252, 281, 337, 339, 355, 357, 385, 454, 472-473</b>	<b>7816</b>	<b>50</b>		<b>470</b>	<b>7902</b>	<b>120</b>		<b>471</b>
5370	10 pcs		249					<b>7818</b>	<b>50</b>		<b>470</b>	<b>7903</b>	<b>120</b>		<b>471</b>
5371	10 pcs		249					<b>7821</b>	<b>360</b>		<b>466</b>	<b>7904</b>	<b>120</b>		<b>471</b>
5574	10 pcs		187	7446	500		454	7823	100		469	<b>7904PF</b>	<b>120</b>		<b>471</b>
56418	240		79, 450	7447	300		454	7823BL	10 pcs		253	<b>7905</b>	<b>120</b>		<b>471</b>
56419	120		79, 450	75AB45L			156, 161	<b>7830</b>	<b>160</b>		<b>454, 469</b>	<b>7905PF</b>	<b>120</b>		<b>471</b>
56421	240		79, 450	75AB45R			156, 161	7831	200		469	<b>7906</b>	<b>120</b>		<b>471</b>
5670			80	75AB45D			156, 161	7834	240		469	<b>7907</b>	<b>120</b>		<b>471</b>
5986	50 pcs	183, 237, 247		75AB45D			156, 161	<b>7835</b>	<b>200</b>		<b>454-455, 468, 469</b>	<b>7908</b>	<b>120</b>		<b>471</b>
<b>6091</b>	<b>50 pcs</b>		<b>183, 227, 237, 247, 253</b>	75AB60L			156, 161	7835SC	150		469	<b>8300</b>	<b>240</b>	✓	<b>458-459</b>
6101	240	✓	465	75AB60R			156, 161	7838			498	<b>8301</b>	<b>240</b>	✓	<b>458-459</b>
<b>6100HRC</b>	<b>240</b>	✓	<b>452-453</b>	75AB60D			156, 161	7841				<b>8500</b>	<b>240</b>	✓	<b>467</b>
6127HRC	210		452-453	75AB75L			161	7842	40 pcs		183, 470	<b>8501</b>	<b>240</b>	✓	<b>467</b>
61D4SK24			416-417	75AB75R			161	7843	40 pcs		470	91070A244	100 pcs		183
<b>6501</b>	<b>144</b>		<b>466</b>	75AB75D			161	<b>7850</b>	<b>300</b>		<b>459, 467, 470</b>	92715A620	25 pcs		227, 291, 245, 253
6655	1-kit		70-71	75CB45			156, 161	<b>7851</b>	<b>360</b>		<b>459, 467, 470</b>	ABSC	250 pcs		472
7123	300/pkg		237, 247	75CB60L			156, 161	7852	200		470	<b>AC1210</b>	<b>10</b>		<b>473</b>
7126	10 pcs	199, 208-209		75CB60R			156, 161	7856	200		470	AC1215	15		473
7127	1 pc		199	<b>7500</b>	<b>240</b>	✓	<b>160, 467</b>	7857	360		421, 470	AC1220	20		473
7129	1 pc		208	<b>7501</b>	<b>240</b>	✓	<b>160, 450, 467</b>	7858	240		470, 498	<b>ACHC</b>	<b>1 pc</b>		<b>473</b>
7130	1 pc		208	<b>7501HRC</b>	<b>240</b>	✓	<b>467</b>	<b>7861</b>	<b>100 pcs</b>		<b>469, 473</b>	<b>AL7200</b>	<b>240</b>		<b>456</b>
7132	100 pcs		199	750106	120		408-409	<b>7862</b>	<b>100 pcs</b>		<b>469</b>	<b>AL7801</b>	<b>300</b>		<b>456, 470</b>
7133	100 pcs		199	7502	200	✓	467	<b>7863</b>	<b>100 pcs</b>		<b>473</b>	<b>ALBERC2</b>	<b>200 pcs</b>		<b>451, 456, 472</b>
7137AB			70	7504	200		468	<b>7864</b>	<b>100 pcs</b>		<b>473</b>	<b>ARBRKT</b>	<b>80 pcs</b>		<b>79, 120</b>
7204			73	7505	166		468	<b>7865</b>	<b>100 pcs</b>		<b>473</b>	<b>ARCAP</b>	<b>80 pcs</b>		<b>120</b>
7205			73	7507	240		468	<b>7866</b>	<b>100 pcs</b>		<b>473</b>	<b>ARPLUG</b>	<b>80 pcs</b>		<b>120, 472</b>
7239	50 pcs		241, 249, 252, 483, 484, 487, 492, 493	7508	220		468	<b>7867</b>	<b>100 pcs</b>		<b>473</b>	<b>ARSTUD</b>	<b>80 pcs</b>		<b>120</b>
<b>7300</b>	<b>240</b>	✓	<b>158, 454-455</b>	75D4SK24	240		416-417	7869	50 pcs		473	<b>AX10ISCP</b>			<b>483</b>
<b>730098HRC</b>	<b>81.6</b>		<b>464-465</b>	<b>7600</b>	<b>240</b>	✓	<b>462</b>	7870	1,000 pcs		159, 281, 331, 333, 337, 339, 355, 357, 385, 454	<b>AX10OSCP</b>			<b>483</b>
<b>7301</b>	<b>240</b>	✓	<b>79, 158, 454-455, 458-459, 465</b>	<b>76008</b>	<b>240</b>	✓	<b>463</b>	<b>7871</b>	<b>300</b>		<b>469</b>	<b>AX10QSI</b>			<b>483</b>
<b>730102HRC</b>	<b>85</b>		<b>464-465</b>	<b>7601</b>	<b>240</b>	✓	<b>462</b>	7872	20 pcs		472	<b>AX10QSOS</b>			<b>483</b>
<b>730136</b>	<b>240</b>		<b>450</b>	76016	120		408-409	<b>7873</b>	<b>300</b>		<b>453, 462-463, 468, 469</b>	<b>AX10QSTR</b>	10		<b>482</b>
<b>730144HRC</b>	<b>120</b>		<b>464-465</b>	<b>76018</b>	<b>240</b>		<b>463</b>	7874	<b>300</b>		<b>161, 453, 467, 469</b>	<b>AX10WEC</b>			<b>488</b>
730145	120		460-461	76018 HD	240		465	<b>7874IC</b>	<b>100 pcs</b>		<b>469, 473</b>	<b>AX12ISCP</b>			<b>483</b>
<b>7301G90A</b>	<b>240</b>		<b>208, 245, 457</b>	7601 HD	240		465	<b>78740C</b>	<b>100 pcs</b>		<b>469</b>	<b>AX12OSCP</b>			<b>483</b>
7301G90ABL	240		457	7602	200	✓	462	<b>7875</b>	<b>300</b>		<b>407, 459, 469</b>	<b>AX12QSI</b>			<b>483</b>
<b>7301HRC</b>	<b>240</b>	✓	<b>458-459</b>	76028	200	✓	463	<b>7876</b>	<b>1 pc</b>		<b>472</b>	<b>AX12QSOS</b>			<b>483</b>
7301TS	240		208	7603	240	✓	462	<b>7877</b>	<b>300</b>		<b>159, 161, 407, 453, 459, 462-463, 467, 469</b>	<b>AX12SOS</b>			<b>483</b>
<b>7302</b>	<b>200</b>	✓	<b>455, 458-459</b>	<b>76038</b>	<b>240</b>	✓	<b>463</b>	7874IC	100 pcs		469, 473	<b>AX12STR</b>	10		<b>482</b>
<b>7305</b>	<b>233</b>	✓	<b>458-459</b>	7606	200	✓	462	<b>78740C</b>	<b>100 pcs</b>		<b>469</b>	<b>AX12WEC</b>			<b>488</b>
7306	220	✓	458-459	76068	200	✓	463	<b>7875</b>	<b>300</b>		<b>407, 459, 469</b>	<b>AX14QSI</b>			<b>483</b>
7307	210	✓	458-459	<b>7612</b>	<b>240</b>	✓	<b>462</b>	<b>7876</b>	<b>1 pc</b>		<b>472</b>	<b>AX14QSOS</b>			<b>483</b>
73AB45L	10 pcs		159	<b>76128</b>	<b>240</b>	✓	<b>463</b>	<b>7877</b>	<b>300</b>		<b>159, 161, 407, 453, 459, 462-463, 467, 469</b>	<b>AX14STR</b>	10		<b>482</b>
73AB45R	10 pcs		159	768D4SK24			416-417	<b>7877IC</b>	<b>100 pcs</b>		<b>469</b>	<b>AX15DSCSTR</b>			<b>491</b>
73AB45D	10 pcs		159	76D4SK24			416-417	<b>78770C</b>	<b>100 pcs</b>		<b>469</b>	<b>AX15DSCOUR</b>			<b>491</b>
73AB60L	10 pcs		159	<b>7800</b>	<b>360</b>	✓	<b>79, 159, 161, 407, 450, 459, 470</b>	<b>7878</b>	<b>300</b>		<b>453, 459, 469</b>	<b>AX16QSI</b>			<b>483</b>
73AB60R	10 pcs		159	<b>780036</b>	<b>360</b>		<b>79, 450</b>	<b>7878IC</b>	<b>100 pcs</b>		<b>469, 473</b>	<b>AX16QSOS</b>			<b>483</b>
73AB60D	10 pcs		159	<b>7800HRC</b>	<b>360</b>		<b>453, 459, 470</b>	<b>78780C</b>	<b>100 pcs</b>		<b>469</b>	<b>AX16STR</b>	10		<b>482</b>
73AB75L	10 pcs		159	<b>7802</b>	<b>300</b>		<b>470</b>	<b>7880</b>	<b>96</b>		<b>469</b>	<b>AX1PC2CUR</b>			<b>484</b>
73AB75R	10 pcs		159	<b>7803</b>	<b>360</b>		<b>470</b>	<b>7882</b>	<b>96</b>		<b>469</b>	<b>AX2HGC</b>			<b>402, 483, 487</b>
73AB75D	10 pcs		159	<b>7804</b>	<b>300</b>		<b>161, 407, 462-463, 468, 470</b>	<b>7882</b>	<b>96</b>		<b>469</b>	<b>AX2ISCP</b>			<b>483</b>
73CB45	10 pcs		159	780410	300		470	<b>7884</b>	<b>96</b>		<b>469</b>	<b>AX2OSCP</b>			<b>483</b>
7418	300		454	<b>7804BL</b>	<b>300</b>		<b>227, 253</b>	<b>7885</b>	<b>96</b>		<b>469</b>	<b>AX2QSOS</b>			<b>483</b>
<b>7425</b>	<b>100 pcs</b>		<b>252, 281, 337, 339, 355, 357, 385, 454, 472-473</b>	7804HRC	300		453, 468, 470	<b>7887</b>	<b>96</b>		<b>469</b>	<b>AX2STR</b>	10		<b>482</b>
7427	250		454	7805	300		470	<b>7888</b>	<b>300</b>		<b>159, 453, 459, 469</b>	<b>AX2VECUR</b>			<b>493</b>
7428	<b>300</b>		<b>454</b>	7805BL	30 pcs		253	<b>7889</b>	<b>300</b>		<b>161, 453, 467, 469</b>	<b>AX2VEISCP</b>			<b>493</b>
<b>7431</b>			<b>337, 339, 355, 357</b>	<b>7807</b>	<b>100</b>		<b>459, 470</b>	7890	96		469	<b>AX2VEOSCP</b>			<b>493</b>
				<b>7808</b>	<b>100</b>		<b>407, 459, 468, 470</b>	<b>7891</b>	<b>140 pcs</b>		<b>227, 241, 245, 253, 473</b>	<b>AX2VEQSI</b>			<b>493</b>
				<b>780812</b>	<b>120</b>		<b>459, 470</b>	<b>7897</b>	<b>300</b>		<b>407, 459, 469</b>	<b>AX2VEQSOS</b>			<b>493</b>
				<b>7809</b>	<b>360</b>		<b>455, 470</b>	<b>7901</b>	<b>120</b>		<b>471</b>	<b>AX2VESTSTR</b>			<b>209, 493</b>
				7813	200		470					<b>AX2WEC</b>			<b>488</b>
				<b>7814</b>	<b>50</b>		<b>470</b>					<b>AX4ISCP</b>			<b>483</b>
												<b>AX4OSCP</b>			<b>483</b>
												<b>AX4QSI</b>			<b>483</b>

REFERENCE – ITEM NUMBER INDEX



# SUSPENSION SYSTEMS

## Item Number Index

Service Category	Service Level	Availability	Details
<b>Made-To-Stock Items (bold face type)</b>	A	5-10 days	Item numbers noted in <b>BOLD</b> on this index
Made-To-Order Items (not inventoried)	C	20-30 days	–
Special Made-To-Order Items (not inventoried)	S	30 days plus	Minimum quantities and setup charges apply
Metric Items	–	30 days plus	Minimum quantities apply

### SUSPENSION PRODUCTS

Item No.	LF/CTN	Available as Made-to-Order	Page No.	Item No.	LF/CTN	Available as Made-to-Order	Page No.	Item No.	LF/CTN	Available as Made-to-Order	Page No.	Item No.	LF/CTN	Available as Made-to-Order	Page No.
<b>BERC2</b>	<b>200 pcs</b>		<b>156, 159, 407, 451, 465, 472</b>	FTP48ZW	24 pcs		339, 357	<b>FZSJCSI</b>	<b>50 pcs</b>		<b>472</b>	<b>MCC8</b>	<b>200 pcs</b>		<b>472</b>
B4	1,000 pcs		199	FTP96ZW	24 pcs		339, 357	<b>FZSJMR9</b>	<b>50 pcs</b>		<b>472</b>	<b>ML7323</b>	<b>120</b>		<b>454</b>
<b>C1430</b>	<b>200 pcs</b>		<b>472</b>	<b>FZ414</b>	<b>50 pcs</b>		<b>253, 473</b>	<b>FZSJMR15</b>	<b>50 pcs</b>		<b>472</b>	<b>ML7343</b>	<b>240</b>		<b>454</b>
<b>CBS4</b>	<b>100 pcs</b>		<b>472</b>	<b>FZ7861</b>	<b>50 pcs</b>		<b>473</b>	<b>FZSTAC</b>	<b>50 pcs</b>		<b>472</b>	<b>ML7520</b>	<b>240</b>		<b>468</b>
<b>CBS6</b>	<b>100 pcs</b>		<b>472</b>	<b>FZ7862</b>	<b>50 pcs</b>		<b>473</b>	<b>FZTLMBS</b>	<b>50 pcs</b>		<b>460</b>	<b>ML7540</b>	<b>120</b>		<b>468</b>
<b>CBS8</b>	<b>100 pcs</b>		<b>472</b>	<b>FZ7863</b>	<b>50 pcs</b>		<b>473</b>	<b>FZTZYK</b>	<b>50 pcs</b>		<b>472</b>	MPT4500	25 pcs		199
<b>CBS10</b>	<b>100 pcs</b>		<b>472</b>	<b>FZ7864</b>	<b>50 pcs</b>		<b>473</b>	FZUJDC	50 pcs	210, 253		M311081	100 pcs		195
<b>CBS12</b>	<b>75 pcs</b>		<b>472</b>	<b>FZ7865</b>	<b>50 pcs</b>		<b>473</b>	<b>FZUHDC</b>	<b>50 pcs</b>		<b>473</b>	M330003A	10 pcs		195
<b>CBS2004</b>	<b>75 pcs</b>		<b>472</b>	<b>FZ7866</b>	<b>50 pcs</b>		<b>473</b>	<b>FZUPCAG</b>	<b>50 pcs</b>		<b>472</b>	M330005A	10 pcs		195
<b>CBS2006</b>	<b>75 pcs</b>		<b>472</b>	<b>FZ7867</b>	<b>50 pcs</b>		<b>473</b>	<b>FZUTC</b>	<b>50 pcs</b>		<b>472</b>	M330011A	10 pcs		195
<b>CBS2008</b>	<b>75 pcs</b>		<b>472</b>	<b>FZ78740C</b>	<b>50 pcs</b>		<b>473</b>	<b>FZWS12</b>	<b>50 pcs</b>		<b>473</b>	PAC	50 pcs		156
<b>CHDC</b>	<b>50 pcs</b>		<b>210, 253, 451, 473</b>	<b>FZ78741C</b>	<b>50 pcs</b>		<b>473</b>	FZXTAC	50 pcs	472, 504		PCC	50 pcs		156
DC750106	10 pcs		408-409	<b>FZ78771C</b>	<b>50 pcs</b>		<b>473</b>	<b>FZXTACAG</b>	<b>50 pcs</b>		<b>472</b>	<b>PMHC</b>	<b>150 pcs</b>		<b>411, 460</b>
DC750108	10 pcs		408-409	<b>FZ8770C</b>	<b>50 pcs</b>		<b>473</b>	GA7327	60 pcs		473	PMHDC	100 pcs		159, 460
DC750110	10 pcs		408-409	<b>FZ78781C</b>	<b>50 pcs</b>		<b>473</b>	GC3W90	250 pcs		472	PMLC	100 pcs		411, 460
DC750112	10 pcs		408-409	<b>FZ78780C</b>	<b>50 pcs</b>		<b>473</b>	<b>GCWA</b>	<b>250 pcs</b>		<b>472</b>	<b>QSLPM12</b>	<b>144</b>		<b>500-503</b>
DC760106	10 pcs		408-409	<b>FZABSC</b>	<b>50 pcs</b>		<b>472</b>	<b>GSC9</b>	<b>100 pcs</b>		<b>472, 505</b>	QSLPM12G90	144		500-502
DC760108	10 pcs		408-409	<b>FZALBERC2</b>	<b>50 pcs</b>		<b>472</b>	<b>GSC12</b>	<b>100 pcs</b>		<b>472, 505</b>	<b>QSUTC</b>	<b>150 pcs</b>		<b>79, 120, 501, 503</b>
DC760110	10 pcs		408-409	<b>FZBACG90</b>	<b>50 pcs</b>		<b>473</b>	<b>GSC16</b>	<b>100 pcs</b>		<b>472, 505</b>	QSUTCA	150 pcs		504
DC760112	10 pcs		408-409	<b>FZBERC</b>	<b>50 pcs</b>		<b>472</b>	<b>HD7801</b>	<b>300</b>		<b>159, 161, 457, 470</b>	QS612	144		500
<b>DCINS</b>	<b>100 pcs</b>		<b>409</b>	<b>FZBERC2</b>	<b>50 pcs</b>		<b>472</b>	<b>HD7801G90</b>	<b>300</b>		<b>245, 457, 470</b>	QS612G90	144		500
<b>DDC</b>	<b>250 pcs</b>		<b>504</b>	<b>FZC1430</b>	<b>50 pcs</b>		<b>472</b>	HD7801G90BL	300		457	QS812	144		500
DGSLTK120			413	<b>FZCBS4</b>	<b>50 pcs</b>		<b>472</b>	HD7831WA	200		469	QS812G90	144		500
DGSLTK24			413	<b>FZCBS6</b>	<b>50 pcs</b>		<b>472</b>	<b>HD8201</b>	<b>240</b>		<b>457</b>	<b>RC1</b>	<b>200 pcs</b>		<b>505</b>
DGSLTK30			413	FZCBS8	50 pcs		472	<b>HD8906</b>	<b>144</b>		<b>195, 497-499</b>	<b>RC2</b>	<b>205 pcs</b>		<b>505</b>
DGSLTK48			413	FZCBS10	50 pcs		472	<b>HD890610</b>	<b>120</b>		<b>497-499</b>	RC2BL	205 pcs	241, 249	
DGSLTK60			413	FZCBS2004	50 pcs		472	<b>HD8906G90</b>	<b>144</b>		<b>497-499</b>	S45	250 pcs		199
DGSLTK72			413	FZCBS2006	50 pcs		472	HD8906HRC	144		497-499	<b>S7708P</b>	<b>96</b>		<b>501, 502-503</b>
DGSLTK90			413	FZCBS2008	50 pcs		472	<b>HD8906F08</b>	<b>144</b>		<b>499</b>	S7708PG90	96		501, 502-503
DGSLTK96			413	<b>FZD4YKLP</b>	<b>50 pcs</b>		<b>417</b>	HD8906F16	144		499	S7710	120		501-503
DGSLTKCON			413	<b>FZDDC</b>	<b>50 pcs</b>		<b>504</b>	<b>HD8906IIC</b>	<b>144</b>		<b>497-499</b>	S7710G90	120		501-503
<b>DLCC</b>	<b>250 pcs</b>		<b>472, 504</b>	<b>FZDLCC</b>	<b>50 pcs</b>		<b>472, 504</b>	<b>IES3</b>	<b>200 pcs</b>		<b>472, 486</b>	<b>S7712P</b>	<b>144</b>		<b>501-503</b>
<b>DW30C</b>	<b>250 pcs</b>		<b>505</b>	<b>FZDW30C</b>	<b>50 pcs</b>		<b>505</b>	<b>IIC</b>	<b>36 pcs</b>		<b>504</b>	S7712PG90	144		501-503
<b>DW45C</b>	<b>250 pcs</b>		<b>505</b>	<b>FZDW45C</b>	<b>50 pcs</b>		<b>505</b>	IJC	250 pcs	411, 460		S7712PHRC	144		501-503
DW50AG	125 pcs		505	<b>FZDW50LT</b>	<b>50 pcs</b>		<b>473, 505</b>	<b>KAM10</b>	<b>100</b>		<b>498, 502</b>	<b>S7714P</b>	<b>168</b>		<b>501-503</b>
DW58AG	125 pcs		505	<b>FZDW58LT</b>	<b>50 pcs</b>		<b>505</b>	<b>KAM12</b>	<b>120</b>		<b>498, 500, 502</b>	S7714PG90	168		501-503
<b>DW50LT</b>	<b>125 pcs</b>		<b>473, 505</b>	<b>FZDW60C</b>	<b>50 pcs</b>		<b>505</b>	<b>KAM12G90</b>	<b>120</b>		<b>498, 502</b>	S7714PHRC	168		501-503
<b>DW58LT</b>	<b>125 pcs</b>		<b>473, 505</b>	<b>FZDW90C</b>	<b>50 pcs</b>		<b>505</b>	KAM12HRC	120	498, 500, 502		<b>S812P</b>	<b>12 pcs</b>		<b>472, 502-503</b>
<b>DW60C</b>	<b>250 pcs</b>		<b>505</b>	<b>FZDWACS</b>	<b>50 pcs</b>		<b>505</b>	<b>KAM1510</b>	<b>100</b>		<b>498, 500, 502</b>	<b>SB12PG90</b>	<b>12 pcs</b>		<b>472, 502-503</b>
<b>DW90C</b>	<b>250 pcs</b>		<b>421, 505</b>	<b>FZDWC</b>	<b>50 pcs</b>		<b>472</b>	<b>KAM151020</b>	<b>100</b>		<b>498, 502</b>	SCXT24MR			105
DWACS	100 pcs		505	<b>FZEHDC50</b>	<b>50 pcs</b>		<b>473, 504</b>	<b>KAM151020E</b>	<b>100</b>		<b>498</b>	SCXT24SPT			105
DWC	250 pcs		472, 504	<b>FZEHDC58</b>	<b>50 pcs</b>		<b>473, 504</b>	KAM151020EQ	100		502	SCXT24SPT2			105
EA7801	360		451	<b>FZEHDC75</b>	<b>50 pcs</b>		<b>473, 504</b>	<b>KAM1512</b>	<b>120</b>		<b>498, 500, 502</b>	SH12	12 pcs		105, 183, 237, 239, 247, 253, 465
<b>EA7812</b>	<b>360</b>		<b>451</b>	<b>FZES4</b>	<b>50 pcs</b>		<b>472</b>	KAM151220E	120		498	<b>SJCG</b>	<b>200 pcs</b>		<b>472</b>
<b>EA7813</b>	<b>360</b>		<b>451</b>	<b>FZES49</b>	<b>50 pcs</b>		<b>472</b>	KAM151220EQ	120		502	<b>SJCSI</b>	<b>200 pcs</b>		<b>472</b>
<b>EA7900</b>	<b>240</b>		<b>451</b>	<b>FZES76004</b>	<b>50 pcs</b>		<b>472</b>	KAM1520G90	100		502	<b>SJMR9</b>	<b>100 pcs</b>		<b>472</b>
<b>EA7903</b>	<b>144</b>		<b>451</b>	<b>FZES76008</b>	<b>50 pcs</b>		<b>472</b>	KAM1525G90	100		502	<b>SJMR15</b>	<b>100 pcs</b>		<b>472</b>
<b>EA7920</b>	<b>120</b>		<b>451</b>	<b>FZGC3W90</b>	<b>50 pcs</b>		<b>472</b>	<b>KAM21020</b>	<b>100</b>		<b>498, 502</b>	SP135	130		497
<b>EA7927</b>	<b>72</b>		<b>451</b>	<b>FZGCWA</b>	<b>50 pcs</b>		<b>472</b>	<b>KAM21020EQ</b>	<b>100</b>		<b>498, 502</b>	SPEED CLIP			105
<b>EA7940</b>	<b>240</b>		<b>451</b>	<b>FZGSC9</b>	<b>50 pcs</b>		<b>472, 505</b>	<b>KAM21025</b>	<b>100</b>		<b>498</b>	SPTCS4			105
<b>EA7947</b>	<b>144</b>		<b>451</b>	<b>FZGSC12</b>	<b>50 pcs</b>		<b>472, 505</b>	LO608T			414	SPTOSCP			105
<b>EHDC50</b>	<b>125 pcs</b>		<b>473, 504</b>	<b>FZGSC16</b>	<b>50 pcs</b>		<b>472, 505</b>	LO808T			414	SPTSPLICE			105
<b>EHDC58</b>	<b>125 pcs</b>		<b>473, 504</b>	<b>FZIES3</b>	<b>50 pcs</b>		<b>472</b>	LO810T			414	SPTSTR			105
<b>EHDC75</b>	<b>125 pcs</b>		<b>473, 504</b>	<b>FZJUC</b>	<b>50 pcs</b>		<b>460</b>	L1010T			414	SS7801	300		120, 470, 407
<b>ES4</b>	<b>100 pcs</b>		<b>472</b>	<b>FZLFC</b>	<b>50 pcs</b>		<b>473</b>	<b>LAM12</b>	<b>240</b>		<b>500, 502-503</b>	<b>STAC</b>	<b>120 pcs</b>		<b>79, 120, 470, 412, 472</b>
<b>ES49</b>	<b>100 pcs</b>		<b>472</b>	<b>FZMBAC</b>	<b>50 pcs</b>		<b>504</b>	<b>LAM12G90</b>	<b>240</b>		<b>500</b>	SWA9854HRC	144		465, 470
<b>ES76004</b>	<b>100 pcs</b>		<b>472</b>	<b>FZMCC4</b>	<b>50 pcs</b>		<b>472</b>	LAM12HRC	240		500, 502-503	SWA9878HRC	144		460-461, 465, 470
<b>ES76008</b>	<b>100 pcs</b>		<b>472</b>	<b>FZMCC8</b>	<b>50 pcs</b>		<b>472</b>	LCB4			412	TLMBS	10 pcs		411, 460
<b>ES7901</b>	<b>240</b>		<b>451</b>	<b>FZPMHC</b>	<b>50 pcs</b>		<b>460</b>	<b>LFC</b>	<b>50 pcs</b>		<b>473</b>	TZBC			407, 412
<b>ES7920</b>	<b>240</b>		<b>451</b>	<b>FZPMHDC</b>	<b>50 pcs</b>		<b>460</b>	LSB4HRC	40		465	TZYL7556	280		468
<b>ES7940</b>	<b>240</b>		<b>451</b>	<b>FZPMLC</b>	<b>50 pcs</b>		<b>460</b>	LSB6HRC	60		465	TZYK	100 pcs		472
FTP4ZW	24 pcs		339, 357	<b>FZQSUTC</b>	<b>50 pcs</b>		<b>503</b>	LSB8HRC	80		460, 465	UHDC	1,000 pcs		219, 253, 457
FTP6ZW	24 pcs		339, 357	<b>FZQSUTCA</b>	<b>50 pcs</b>		<b>504</b>	LSB10HRC	100		460, 465				
FTP24ZW	24 pcs		339, 357	<b>FZRC1</b>	<b>50 pcs</b>		<b>505</b>	LSB12HRC	120		460, 465				
				<b>FZRC2</b>	<b>50 pcs</b>		<b>505</b>	<b>MBAC</b>	<b>70 pcs</b>		<b>504</b>				
				<b>FZSJCG</b>	<b>50 pcs</b>		<b>472</b>	<b>MCC4</b>	<b>200 pcs</b>		<b>472</b>				

REFERENCE – ITEM NUMBER INDEX



# SUSPENSION SYSTEMS & WALLS

## Item Number Index

### SUSPENSION PRODUCTS \* SF per carton unless otherwise noted

Packaging information is subject to change.

Before specifying or ordering, contact TechLine at 1 877 276-7876.

Item No.	LF/CTN	Available as Made-to-Order	Page No.
<b>UHDCA</b>	<b>1,000 pcs</b>		<b>473</b>
<b>UPC</b>	<b>200 pcs</b>		<b>409, 472</b>
<b>UTC</b>	<b>250 pcs</b>		<b>472</b>
<b>WS12</b>	<b>1,000 pcs</b>		<b>473</b>
XL34036	240		79
XL6104HRC	20	✓	452-453
XL6106HRC	30	✓	452-453
XL6110HRC	120	✓	452-453
XL6120	120		465
<b>XL6120HRC</b>	<b>120</b>	<b>✓</b>	<b>452-453</b>
XL6140	240		465
<b>XL6140HRC</b>	<b>240</b>	<b>✓</b>	<b>452-453</b>
<b>XL6150AHRC</b>	<b>300</b>	<b>✓</b>	<b>452-453</b>
XL6162HRC	210	✓	452-453
XL6164HRC	270	✓	452-453
XL6167HRC	135	✓	452-453
<b>XL6170HRC</b>	<b>100</b>	<b>✓</b>	<b>452-453</b>
<b>XL6180HRC</b>	<b>160</b>	<b>✓</b>	<b>452-453</b>
<b>XL6190HRC</b>	<b>120</b>	<b>✓</b>	<b>452-453</b>
<b>XL6521</b>	<b>72</b>		<b>466</b>
<b>XL6541</b>	<b>144</b>		<b>466</b>
<b>XL7318</b>	<b>120</b>	<b>✓</b>	<b>458-459</b>
<b>XL732036</b>	<b>120</b>		<b>79, 450</b>
<b>XL7321G90A</b>	<b>120</b>		<b>208, 245, 457</b>
XL7321G90ABL	120		457
XL7325	60		460-461
<b>XL7328</b>	<b>120</b>	<b>✓</b>	<b>454, 458-459, 465</b>
XL7330	180	✓	458-459
<b>XL7340</b>	<b>240</b>	<b>✓</b>	<b>458-459</b>
<b>XL734036</b>	<b>240</b>		<b>450</b>
<b>XL7341</b>	<b>240</b>	<b>✓</b>	<b>79, 158, 208, 458-459, 465</b>
<b>XL7341G90A</b>	<b>240</b>		<b>208, 245, 457</b>
XL7341G90ABL	240		457
<b>XL7341HRC</b>	<b>240</b>	<b>✓</b>	<b>458-459</b>
XL7341TS			208
<b>XL7342</b>	<b>240</b>	<b>✓</b>	<b>454, 459</b>
XL7345	120		460-461
<b>XL7348</b>	<b>240</b>	<b>✓</b>	<b>458-459</b>
<b>XL7357</b>	<b>300</b>	<b>✓</b>	<b>458-459</b>
<b>XL7358</b>	<b>300</b>	<b>✓</b>	<b>458-459</b>
<b>XL7368</b>	<b>100</b>	<b>✓</b>	<b>458-459</b>
<b>XL7378</b>	<b>150</b>	<b>✓</b>	<b>208, 458-459</b>
<b>XL7380</b>	<b>160</b>	<b>✓</b>	<b>458-459</b>
<b>XL7390</b>	<b>120</b>	<b>✓</b>	<b>458-459</b>
XL7390TS			208
XL7398	90	✓	458-459
XL7504	20	✓	468
XL7506	30	✓	468
XL7508		✓	463
<b>XL7510</b>	<b>120</b>	<b>✓</b>	<b>468</b>
<b>XL7520</b>	<b>120</b>	<b>✓</b>	<b>156, 160, 450, 465, 468</b>
XL7520HRC	120	✓	468
XL7528	140	✓	468
XL7530	180	✓	467
<b>XL7540</b>	<b>240</b>	<b>✓</b>	<b>450, 467</b>
XL7541HRC	240	✓	467
<b>XL7549</b>	<b>240</b>	<b>✓</b>	<b>160, 465, 467</b>
XL7561	105	✓	468
XL7562	210	✓	468
<b>XL7570</b>	<b>150</b>	<b>✓</b>	<b>468</b>
<b>XL7558</b>	<b>300</b>	<b>✓</b>	<b>467</b>
<b>XL7580</b>	<b>160</b>	<b>✓</b>	<b>467</b>
<b>XL7590</b>	<b>120</b>	<b>✓</b>	<b>467</b>

Item No.	LF/CTN	Available as Made-to-Order	Page No.
XL7604	20	✓	462
XL76048	20	✓	463
XL7606	30	✓	462
XL7610	120	✓	462
<b>XL76108</b>	<b>120</b>	<b>✓</b>	<b>463</b>
<b>XL7620</b>	<b>120</b>	<b>✓</b>	<b>462</b>
<b>XL76208</b>	<b>120</b>	<b>✓</b>	<b>463, 465</b>
<b>XL7640</b>	<b>240</b>	<b>✓</b>	<b>462, 465</b>
<b>XL76408</b>	<b>240</b>	<b>✓</b>	<b>463</b>
<b>XL7645</b>	<b>240</b>	<b>✓</b>	<b>462, 465</b>
<b>XL76458</b>	<b>240</b>	<b>✓</b>	<b>463, 465</b>
<b>XL7646</b>	<b>240</b>	<b>✓</b>	<b>462</b>
<b>XL76468</b>	<b>240</b>	<b>✓</b>	<b>463</b>
XL7650	150	✓	462
XL76508	150	✓	463
XL7651	150	✓	462
XL7654	150	✓	462
XL7655	150	✓	462
XL76558	150	✓	463
<b>XL7670</b>	<b>150</b>	<b>✓</b>	<b>462</b>
<b>XL76708</b>	<b>150</b>	<b>✓</b>	<b>463</b>
<b>XL7680</b>	<b>160</b>	<b>✓</b>	<b>462</b>
<b>XL76808</b>	<b>160</b>	<b>✓</b>	<b>463</b>
<b>XL7690</b>	<b>120</b>	<b>✓</b>	<b>462</b>
<b>XL76908</b>	<b>120</b>	<b>✓</b>	<b>463</b>
XL7936G90	108		187, 497
<b>XL8223</b>	<b>120</b>		<b>457</b>
<b>XL8240</b>	<b>240</b>		<b>457</b>
<b>XL8320</b>	<b>120</b>	<b>✓</b>	<b>79, 158, 208, 458-459</b>
<b>XL8320HRC</b>	<b>120</b>	<b>✓</b>	<b>458-459</b>
<b>XL8323</b>	<b>120</b>	<b>✓</b>	<b>458-459</b>
<b>XL8340</b>	<b>240</b>	<b>✓</b>	<b>458-459</b>
<b>XL8341</b>	<b>240</b>	<b>✓</b>	<b>458-459</b>
XL8520	120	✓	468
XL8540	240	✓	467
<b>XL8926</b>	<b>78</b>		<b>497-499</b>
<b>XL8926G90</b>	<b>78</b>		<b>187, 497</b>
<b>XL8945P</b>	<b>144</b>		<b>187, 497</b>
XL8945PHRC	144		497-499
XL8945G90	144		497-499
<b>XL8947P</b>	<b>150</b>		<b>497-499</b>
XL8947PG90			497-499
<b>XL8965</b>	<b>216</b>		<b>497-499</b>
<b>XL8965HRC</b>	<b>216</b>		<b>497-499</b>
<b>XLAL7220</b>	<b>120</b>		<b>456</b>
<b>XLAL7240</b>	<b>240</b>		<b>456</b>
XLSS7220	120		456
XLSS7240	240		456
XM734548	20 pcs		158
XM7348	20 pcs		158
XM736048	60 pcs		158
XM737548	60 pcs		158
XM7524	60 pcs		156
XM754524	60 pcs		156, 160
XM754548	60 pcs		160
XM7548	20 pcs		160
XM756024	60 pcs		156, 160
XM756048	60 pcs		160
XM757524	60 pcs		160
XM757548	60 pcs		160
XTAC	100 pcs		407, 412, 451, 460, 465, 504
<b>XTACAG</b>	<b>100 pcs</b>		<b>472</b>

### WALLS PRODUCTS

Item No.	SF*/CTN	Page No.
3107	12 pcs	519
3108	6 pcs	519
3154	128	519
32061		517-518
32081		517-518
32091		517-518
32101		517-518
3856		529
40060		517-518
40080		517-518
40090		517-518
40100		517-518
4062		529
4064		529
4065A		529
5389	250 pcs	523
5479	12 pcs	528
5672	250 pcs	528
5673	20 pcs	528
5800	32	524-525
5801	64	524-525
5802	40	524-525
5803	32	524-525
5804	64	524-525
5805	40	524-525
5814	Bulk	520-521
5818	Bulk	520-521
5819	Bulk	520-521
5820	Bulk	520-521
5824	2 pcs/pck	526-527
5848	16 pcs	526-527
5850	1 pc	529
5851	Bulk	528
5852	Bulk	528
5855	Bulk	528
5856	Bulk	528
5857	Bulk	528
5858	1 pc	529
5859	Bulk	528
5860	1 pc	529
5861	1 pc	529
5862	1 pc	529
5863	1 pc	529
5863NA	1 pc	529
5864	1 pc	529
5866	1 pc	529
5866	1 pc	529
5867	Bulk	528
5900W	Bulk	522-523
5901W	Bulk	522-523
5907	Bulk	528
5970		524-525
5971		524-525
5972		524-525
5973		524-525
5974		524-525
5975		524-525
6408	1 pc	528
663910	1 pc	528
6688W	Bulk	522-523
6689W	Bulk	522-523
8173T10	36 pcs	512-513
8174T10	72 pcs	512-513
8175T10	72 pcs	512-513
8180T10	36 pcs	512-513

Item No.	SF*/CTN	Page No.
8181T10	72 pcs	512-513
8182T10	72 pcs	512-513
8187L16	1,000/ctn	512-513
8188L16	1,000/ctn	512-513
8189L22	500/ctn	512-513

REFERENCE - ITEM NUMBER INDEX

# CEILING,SUSPENSION SYSTEMS & WALLS

## Alphabetical Index

### CEILING PRODUCTS

	Page No.		Page No.		Page No.
<b>A</b>		FORMATIONS™ Clouds	86-97	METALWORKS™ Shapes for DESIGNFlex™	152-155
ALTITUDES® Custom Ceiling Systems	272-273	<b>G</b>		METALWORKS™ Snap-in ceiling panels	198-199
ARMATUFF® ceiling panels	271	GEORGIAN™ ceiling panels	322-323	METALWORKS™ Tegular ceiling panels	174-177
<b>B</b>		GRAPHIS® Finetex™ ceiling panels	324-325	METALWORKS™ Tegular for DESIGNFlex™	156-157
BLADES™ & BAFFLES At-A-Glance	68-69	GRAPHIS® Rustex™ ceiling panels	324-325	METALWORKS™ Tin ceiling panels	202-203
<b>C</b>		<b>H</b>		METALWORKS™ TorsionSpan™ ceiling panels	215
CALLA® ceiling panels	274-281	Hardware Friendly Options (Refer to CIRRUS®)		METALWORKS™ Torsion Spring Custom Ceiling System	215
CALLA® Shapes for DESIGNFlex™	134-135	<b>I</b>		METALWORKS™ Torsion Spring Standard ceiling panels	204-208
CANYON® ceiling panels	282-283	INFUSIONS® Blades – Concepts™ panels	70	METALWORKS™ Vector® – Interior & Exterior ceiling panels	187-179
Canopies and Clouds At-A-Glance	84-85	INFUSIONS® Canopies	98	METALWORKS™ Wings clouds	armstrongceilings.com
CAPZ™ acoustical ceiling panels	119-121	INFUSIONS® Lay-in ceiling panels	260-262	METAPHORS® Coffers	342-343
Ceiling Selector Charts	60-63	INFUSIONS® Shapes Clouds	99	Minaboard (Refer to CORTEGA® or GEORGIAN™ ceiling panels)	
Ceiling/Suspension Interface Drawings	474-478	INFUSIONS® Wings Clouds	armstrongceilings.com	Minatone (Refer to CORTEGA® or GEORGIAN™ ceiling panels)	
CERAMAGUARD® & FINE FISSURED™ CERAMAGUARD® ceiling panels	284-285	INTEGRATED SOLUTIONS At-A-Glance	400	Mineral Fiber/Fiberglass Ceilings At-A-Glance	266-270
CIRRUS® High NRC ceiling panels	286-291	Intersection Downlighting	416-417	<b>O</b>	
CIRRUS® Open Plan ceiling panels (Refer to CIRRUS® High NRC)		INVISACOUSTICS™	122-123	OPTIMA® ceiling panels for TECHZONE® Ceiling Systems (see TECHZONE®)	
CIRRUS® Profiles ceiling panels – Beveled, Chamfered & Classic Step	292-293	<b>K</b>		OPTIMA® CAPZ™ acoustical panels (see CAPZ)	
CIRRUS® Second Look® ceiling panels	294-295	KITCHEN ZONE™ ceiling panels	326-327	OPTIMA® Concealed ceiling panels	356-357
CIRRUS® Square Lay-in ceiling panels	286-287	<b>L</b>		OPTIMA® Health Zone™ ceiling panels	358-361
CIRRUS® Tegular ceiling panels	288-291	LEDGES® ceiling panels	328-329	OPTIMA® Plank ceiling panels (Refer to OPTIMA® Square Lay-in)	
CIRRUS® Themes™ ceiling panels – Critters™, Stars™, Things That Fly™, Under the Sea™	296-297	Linear Lighting – Drywall	413	OPTIMA® Radial Custom Ceiling Systems	362-363
Clean Room™ FL & Clean Room VL ceiling panels	298-299	Linear Lighting – Acoustical Ceilings	412	OPTIMA® Shapes for DESIGNFlex™	142-148
Common conditions – Corridors	443	Linear Lighting – Acoustical Clouds	414	OPTIMA® Square Lay-in ceiling panels	344-347
Common conditions – Flat and Curved Drywall	440	Linear Lighting – Zero Plenum T-Bar LED Smartlight	415	OPTIMA® Tegular ceiling panels	348-353
Common conditions – Interior Glass Partitions	441	LYRA® Concealed ceiling panels	338-339	OPTIMA® Vector® ceiling panels	354-355
Common conditions – Light Coves and Pockets	438-439	LYRA® PB Square Lay-in ceiling panels	330-331	<b>P</b>	
Common conditions – Soffits & Bulkheads	437	LYRA® PB Tegular ceiling panels	332-335	PAINTED NUBBY™ ceiling panels	364-364
Common conditions – Transitions	434	LYRA® Shapes for DESIGNFlex™	138-141	PEBBLE™ ceiling panels	366-367
Common conditions – Windows	433	LYRA® Vector®	336-337	Portfolio At-A-Glance	56-59
CORTEGA® Square Lay-in & Tegular ceiling panels	300-301	<b>M</b>		<b>R</b>	
CORTEGA® Second Look® ceiling panels	300-301	MESA™ & MESA™ Second Look® ceiling panels	340-341	Radial Ceilings – METALWORKS™ Custom Ceiling Systems	213
CREATE!™ ceiling panels	302-304	METALWORKS™ 3D Ceiling Panels	200-201	Radial Ceilings – OPTIMA® Custom Ceiling Systems	362-363
<b>D</b>		METALWORKS™ Accessories & Infill Panel	209-210	Radial Ceilings – WOODWORKS® Custom Ceiling Systems	256
DESIGNER™ ceiling panels	305	METALWORKS™ At-A-Glance	164-171	RANDOM FISSURED™ ceiling panels	368
DC FLEXZONE™	408-409	METALWORKS™ Blades – Concepts™ panels	71	Recessed Downlighting Center-cut Panels	418-419
Direct-to-Deck At-A-Glance	118	METALWORKS™ Blades – Classics™ panels	72-73	<b>S</b>	
DUNE™ Second Look® ceiling panels	309	METALWORKS™ Canopies	armstrongceilings.com	SCHOOL ZONE® FINE FISSURED™ & SCHOOL ZONE® GEORGIAN™ ceiling panels	370-371
DUNE™ Square Lay-in ceiling panels	306-308	METALWORKS™ Clip-on ceiling panels	180-181	Second Look® (Refer to CIRRUS® Second Look®, FINE FISSURED™ Second Look®, CORTEGA® Second Look®, or DUNE™ Second Look®)	
DUNE™ Tegular ceiling panels	306-308	METALWORKS™ Concealed ceiling panels	182-183	SERPENTINA® Classic clouds	100-101
<b>E</b>		METALWORKS™ Custom Ceiling Systems	212-215	SERPENTINA® Vault ceiling panels	102-103
Effects™ Wood Looks finishes (Refer to METALWORKS™)		METALWORKS™ DH700 Flat & Faceted Custom Ceiling Systems	212	SERPENTINA® Waves™ clouds	104-107
<b>F</b>		METALWORKS™ Effects™ Wood Looks finishes (Refer to METALWORKS™)		SHASTA® ceiling panels	369
FINE FISSURED™ Tegular ceiling panels	316-319	METALWORKS™ Linear – Interior & Exterior ceiling panels	184-187	SOUNDSCAPES® Basics canopies	armstrongceilings.com
FINE FISSURED™ Tile	310-311	METALWORKS™ Mesh™ ceiling panels	188-191	SOUNDSCAPES® Blades™ panels	74-79
FINE FISSURED™ High NRC ceiling panels	312-319	METALWORKS™ Open Cell ceiling panels	192-193	SOUNDSCAPES® canopies	108-109
FINE FISSURED™ Open Plan ceiling panels (Refer to FINE FISSURED™ High NRC)		METALWORKS™ Plank ceiling panels	194-195	SOUNDSCAPES® Shapes clouds	110-111
FINE FISSURED™ Second Look®	320	METALWORKS™ Radial Custom Ceiling Systems	213	SOUNDSOAK® Baffles vertical panel	80
FINE FISSURED™ Square Lay-in ceiling panels	312-315	METALWORKS™ RH200 Custom Flat & Curved Ceiling Systems	213	Spectra™ CAPZ™ acoustical panels (see CAPZ)	
FISSURED™ ceiling panels	321	METALWORKS™ RH215 Custom Ceiling Systems	214		
		METALWORKS™ SecureLock™ & SecureLock™ Plus ceiling panels	196-197		

# CEILING,SUSPENSION SYSTEMS & WALLS

## Alphabetical Index

### CEILING PRODUCTS

Page No.

<b>T</b>	
TECHZONE® Ceiling Systems	402-407
Tin Ceilings (Refer to METALWORKS Tin™ ceiling panels)	
TECTUM® Blades™ & Baffles	81
TECTUM® Clouds & Shapes	114
TECTUM® Finale Direct Attach Ceilings	126
TECTUM® Lay-in	394-395
TECTUM® Standard Direct Attach Ceilings	124-125
TECTUM® Panel Art Ceilings	127
TECTUM® Tegular	396-397
TECTUM® Wood Fiber – Cementitious AAG	392-393
TINCRAFT™ ceiling panels	372-373
Translucent Panels (Refer to INFUSIONS® ceiling panels)	209-210
Trim and Acoustical Infill Panels (METALWORKS™ family)	252-253
Trim and Acoustical Infill Panels (WOODWORKS® family)	374-375
TUNDRA® ceiling panels	309-310

### U

ULTIMA® ceiling panels for TECHZONE® Ceiling Systems (see TECHZONE®)	
ULTIMA® Health Zone™ & ULTIMA® Health Zone™ High NRC ceiling panels	386-389
ULTIMA® High NRC Tegular ceiling panels	380-383
ULTIMA® High NRC Lay-in ceiling panels	376-379
ULTIMA® Plank ceiling panels (Refer to ULTIMA® Square Lay-in, Tegular, or Vector®)	
ULTIMA® Shapes for DESIGNFlex™	149-151
ULTIMA® Square Lay-in ceiling panels	376-379
ULTIMA® Tegular ceiling panels	380-383
ULTIMA® Themes™ ceiling panels (Refer to CREATE!™)	
ULTIMA® Vector® ceiling panels	384-385

### V

Vinyl-faced Fiberglass (Refer to PEBBLE™ or SHASTA® ceiling panels)	
VL ceiling panels	298-299

### W

WOODWORKS® Access™ Custom Ceiling System	255-256
WOODWORKS® Accessories	252-253
WOODWORKS® At-A-Glance	218-223
WOODWORKS® Canopies	115
WOODWORKS® Channeled ceiling panels	230-235
WOODWORKS® Concealed ceiling panels	236-237
WOODWORKS® Custom Ceiling Systems	254-258
WOODWORKS® Grille ceiling panels	238-243
WOODWORKS® Linear ceiling panels	244-249
WOODWORKS® Open Cell ceiling panels	250-251
WOODWORKS® Radial Custom Ceiling Systems	256
WOODWORKS® Tegular ceiling panels	224-227
WOODWORKS® Torsion Spring Custom Ceiling Systems	258
WOODWORKS® Vector® ceiling panels	228-229

### SUSPENSION PRODUCTS

Page No.

360° Painted Grid System	450
AL PRELUDE® Plus XL® suspension (see PRELUDE® Plus XL®)	
AXIOM® Building Perimeter System (see AXIOM® Shade Pockets)	
AXIOM® Trim At-A-Glance	480-481
AXIOM® Trim for Drywall	484
AXIOM® Wall Moldings & Column Rings	494
AXIOM® Classic Straight & Curved trim	482-483
AXIOM® Glazing Channel trim	485
AXIOM® Interlude® trim	486
AXIOM® Knife Edge® trim	487
AXIOM® Light Coves – Direct	420
AXIOM® Light Coves – Indirect	421-423
AXIOM® Paired Accent System	488
AXIOM® Profiled trim	439
AXIOM® Soft Edge trim	490
AXIOM® Transitions trim	491-492
AXIOM® Vector® trim	493
AXIOM® Shade Pockets – Building Perimeters	424-429
AXIOM® Shade Pockets – Lutron-compatible	428-429
CLEAN ROOM™ suspension system	451
Data Center Suspension Systems	410-411
DC FLEXZONE™ suspension system	408-409
Drywall Grid System Accessories	504-505
Drywall Grid System for Curved Ceilings	499
Drywall Grid System for Flat Ceilings	497-498
Drywall Grid System At-A-Glance	496
INTERLUDE® XL® 9/16" Dimensional Tee suspension system	452-453
PRELUDE® Concealed suspension system	454
PRELUDE® ML 15/16" suspension system	455
PRELUDE® Plus XL® Fire Guard™ 15/16"	457
PRELUDE® Plus XL® suspension system – Aluminum	457
PRELUDE® Plus XL® suspension system – Stainless Steel	457
PRELUDE® XL® 15/16" Exposed Tee System	458-459
PRELUDE® XL® 15/16" suspension system for Exterior Applications	457
PRELUDE® XL® High Recycled Content suspension system	458-459
PRELUDE® XL Max™ suspension system	460-461
PRELUDE® XM suspension system for DESIGNFlex™	158-159
QUIKSTIX™ Drywall Ceiling System	501
QUIKSTIX™ Soffits & Wall Liner	500
SHORTSPAN® Drywall Framing System	502-503
SILHOUETTE® XL® 9/16" Bolt-Slot System – 1/4" Reveal	462-643
SILHOUETTE® XL® 9/16" Bolt-Slot System – 1/8" Reveal	464-465
SINGLESPAN™ Corridor Solutions	468
SONATA® XL® 9/16" Dimensional Tee System	399
SS PRELUDE® Plus XL® 15/16" Exposed Tee System (see PRELUDE® Plus XL®)	
SUPRAFINE® ML 9/16" suspension system	466-467
SUPRAFINE® XL® HRC suspension system	466-467
SUPRAFINE® XM suspension system for DESIGNFlex™	160-161
Suspension Systems Selector Chart	444-445
Suspension Systems Accessories	472-473
Suspension Systems At-A-Glance	448-449

### WALLS PRODUCTS

Page No.

Custom Metal Wall Systems	530
Custom WOODWORKS® Wall Systems	531
INFUSIONS™ Partitions	526
INFUSIONS™ Walls	527
OPTIMA® acoustical wall panels	519
PAINTED NUBBY™ acoustical wall panels	519
SOUNDSCAPES® Shapes wall panels	519
SOUNDISOAK® Acoustical Wall Systems	517-518
SOUNDISOAK® Custom	517-518
TECTUM® Panel Art Walls	416
TECTUM® Fabri-Tough Walls	515
TECTUM® Finale Direct Attach Walls	514
TECTUM® Standard Direct Attach Walls	512-513
Wall Acoustical Infill Panel	528
Wall Accessories	528
Walls At-A-Glance	508-511
WOODWORKS® Channeled Wall System	522-523
WOODWORKS® EKOS® Wall Systems	524-525
WOODWORKS® Wall Systems	520-521
WOODWORKS® Custom Wall Systems	531

What you need,  
when you need it.

**Armstrong** Inspiring Great Spaces  
CEILING & WALL SOLUTIONS

CEILING | GRID & TRIM | INTEGRATED SOLUTIONS | WALLS | APPLICATIONS | PERFORMANCE | PHOTOS & VIDEOS | DOWNLOADS & RESOURCES

Home > Commercial Ceiling & Wall > METALWORKS Torsion Spring

## METALWORKS Torsion Spring

**SELECTOR** FEATURES ALL PRODUCTS INSTALLATION CAD & BIM/REVIT INSPIRATION VIDEOS RESOURCES

**SHAPES:** Rectangle

**SIZE**

**SIDE A: 24 in**

24 in 30 in

**SIDE B: 24 in**

24 in 30 in 48 in 72 in 96 in

METALWORKS Torsion Spring in BrushAlume

**YOUR CHOICES**

SHAPE: Rectangle [Reset All](#)

SIDE A: 24 in

SIDE B: 24 in

THICKNESS: 1/2 in

EDGE: Square 15/16

PERFORMANCE: HI - Unperforated

COLOR: BrushAlume

(ITEM 73096) SEE PRODUCT DETAILS

**PERFORMANCE at a glance**

ACOUSTICS

Sound Absorption (NRC) 0.75

Sag/ Humidity Resistance

Soil Resistance

**PROJECT GALLERY**

We found 20 Project results for "Metalworks Torsion Spring"

VIEW ALL | Small image grid | Large image grid

VIEW PROJECTS BY: MARKET MATERIAL USE AREA TREND

16-168 Blinney Street (Interior Spaces) (2 photos)

Hulme International (Interior Spaces) (2 photos)

Academy Tower (Interior Spaces) (8 photos)

Port Louis/Johns Airport Terminal & Lounge (Interior Spaces) (13 photos)

**VIDEOS**

Antler Spaces | 1:27

No Compromises | 1:44

Well-Being | 1:48

Design Plus Work | 1:07

Thousands of product installation photos. Filter by project type (market), material, use area, trend (discontinuous, perforated, geometrics, linear, cellular, low-relief, blades, planks, and striations.)

**TECHNICAL**

- Data Sheet - METALWORKS Torsion Spring (24 | 8/16)
- Data Sheet - METALWORKS Trim & Accessories (27 | 3/16)
- Installation Guide - METALWORKS Torsion Spring (10 | 1/1)
- Installation Guide - METALWORKS Torsion Spring for Exterior Applications (12 | 1/1)
- MetaWorks SDS (107 | 4/16)
- 1 Year Warranty - METALWORKS & SERPENTINA for Pools (108 | 1/17)

**DRAWING DETAILS**

- CAD Drawings
- BIM/REVIT Files

**BROCHURES**

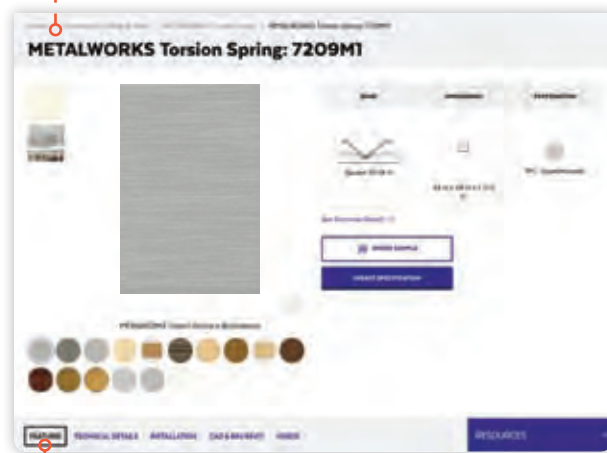
- METALWORKS Torsion Spring Brochure (10 | 1/1)
- SUSTAIN: High Performance Sustainable Ceiling Systems (10 | 1/1)

**TOOLS**

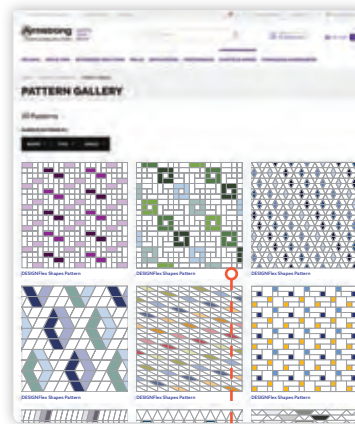
- Build-A-Spec

**SUSTAINABILITY**

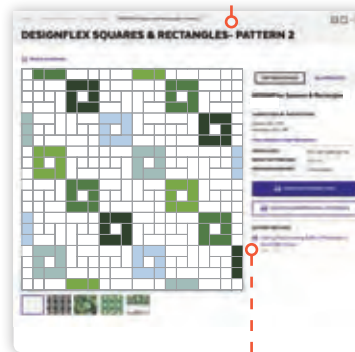
- HFD - METALWORKS Ceilings (10 | 1/1)
- EPD - Aluminum Specialty Products (107 | 4/16)
- Declare Label - METALWORKS (CDN) (10 | 1/1)
- VOC Certificate of Compliance - Aluminum Tile with Acoustical Fleece (107 | 4/16)



# Tools Spotlight

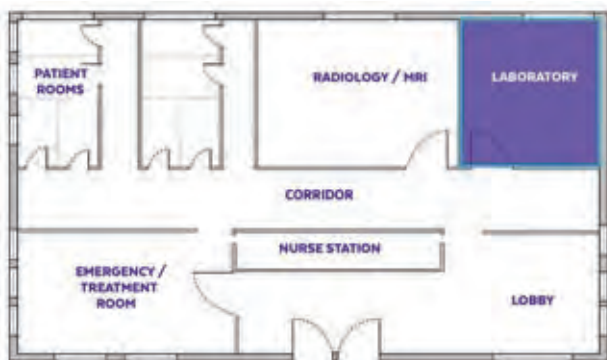
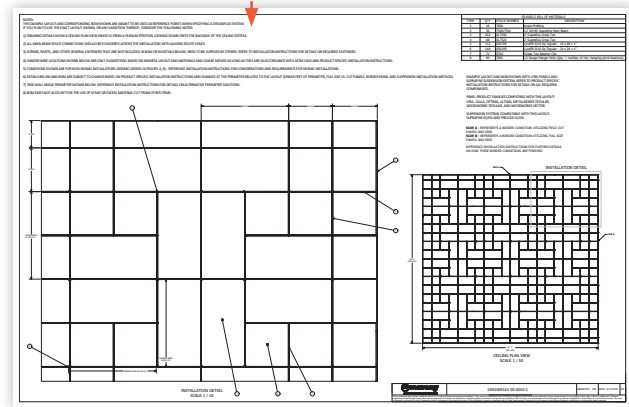


◀ Browse dozens of patterns and colors in our online pattern gallery.



◀ See what products can be used to create the pattern you've selected.

▼ See installation details as well as all components used to install your design.



## Enhanced Ceiling for Every Space

Need to see product recommendations for a kitchen in your school, or a healthcare MRI room?

Visit our layouts online and click to see products that meet the performance needs of the space, including common conditions.

WEB TOOLS



# HOW CAN WE HELP?

## 1 877 276 7876

Customer Service Representatives  
7:45 a.m. to 5:00 p.m. EST  
Monday through Friday

**TechLine** – Technical information,  
detail drawings, CAD design assistance,  
installation information, other technical  
services – 8:00 a.m. to 5:30 p.m. EST,  
Monday through Friday.  
FAX 1 800 572 8324 or email:  
techline@armstrongceilings.com

## [armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)

Latest product news  
Standard, custom, and one-of-a-kind  
product information  
Online catalog  
CAD, Revit®, SketchUp® files  
A Ceiling for Every Space® Visual and  
Product Selection Tool  
 Pattern Gallery  
 Drywall Grid Calculator  
Product literature and samples –  
express service or regular delivery  
Contacts – reps, where to buy,  
who will install



SketchUp® is a trademark of Trimble, Inc.; Revit® is a registered trademark of Autodesk, Inc.  
Inspiring Great Spaces® is a registered trademark of AFI Licensing LLC  
All other trademarks used herein are the property of AWI Licensing LLC and/or its affiliates  
© 2018 AWI Licensing LLC Printed in the United States of America

[armstrongceilings.com/commercial](http://armstrongceilings.com/commercial)

## YOU INSPIRE™ SOLUTIONS CENTER

### 1 800 988 2585

[armstrongceilings.com/youinspire](http://armstrongceilings.com/youinspire)  
email: [solutionscenter@armstrongceilings.com](mailto:solutionscenter@armstrongceilings.com)

#### Design Assistance

Collaborative design  
Detail drawings  
Specifications  
Planning and budgeting

#### Pre-construction Assistance

Layout drawings for standard and  
premium products  
Project installation recommendations  
Contractor installation assistance

## you inspire™ solutions center

helping to bring your one-of-a-kind ideas to life

ON THE COVER AND ABOVE:  
DESIGNFlex™ Ceiling Systems, pattern SH8

# Inspiring Great Spaces®

# Armstrong®

CEILING & WALL SOLUTIONS